

A1-F18AC-740-520

1 NOVEMBER 2001

CHANGE 1 - 1 JUNE 2002

TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE
SYSTEM SCHEMATICS**

WEAPON CONTROL SYSTEMS

**NAVY MODEL
F/A-18A AND F/A-18B
161353 AND UP**

N68936-01-D-0007

**This volume is one of three volumes and is incomplete without A1-F18AC-740-500, and
A1-F18AC-740-510.**

This volume contains WP051 00 thru WP075 02.

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0801LP1020325

NATEC ELECTRONIC MANUAL

NUMERICAL INDEX OF EFFECTIVE WORK PACKAGES/PAGES

List of Current Changes

Original 0 1 Nov 01 Change 1 1 Jun 02

Only those work packages/pages assigned to the manual are listed in this index. Insert Change 1, dated 1 June 2002. Dispose of superseded work packages/pages. Superseded classified work packages/pages shall be destroyed in accordance with applicable security regulations. If changed pages are issued to a work package, insert the changed pages in the applicable work package. The portion of text affected in a change or revision is indicated by change bars or the change symbol "R" in the outer margin of each column of text. Changes to illustrations are indicated by pointing hands, change bars or MAJOR CHANGE symbols. Changes to diagrams may be indicated by shaded borders.

Total number of pages in this manual is 426, consisting of the following:

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14	1	061 00		1	1		
15 – 26	0	1 – 5	0	2 – 6	0		
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LIST OF TECHNICAL PUBLICATION DEFICIENCY REPORTS INCORPORATED**ORGANIZATIONAL MAINTENANCE****SYSTEM SCHEMATICS****WEAPON CONTROL SYSTEMS**

This TPDR supersedes TPDR, dated 1 November 2001.

1. The TPDRs listed below have been incorporated in this issue.

IDENTIFICATION NUMBER/ QA SEQUENCE NUMBER	LOCATION
NONE	

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 AGM-65 MAVERICK

STORES MANAGEMENT SYSTEM

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None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the system functions for the Maverick when loaded on stations 2, 3, 7 and 8.
3. The location of the components on this schematic can be seen in WP008 00.

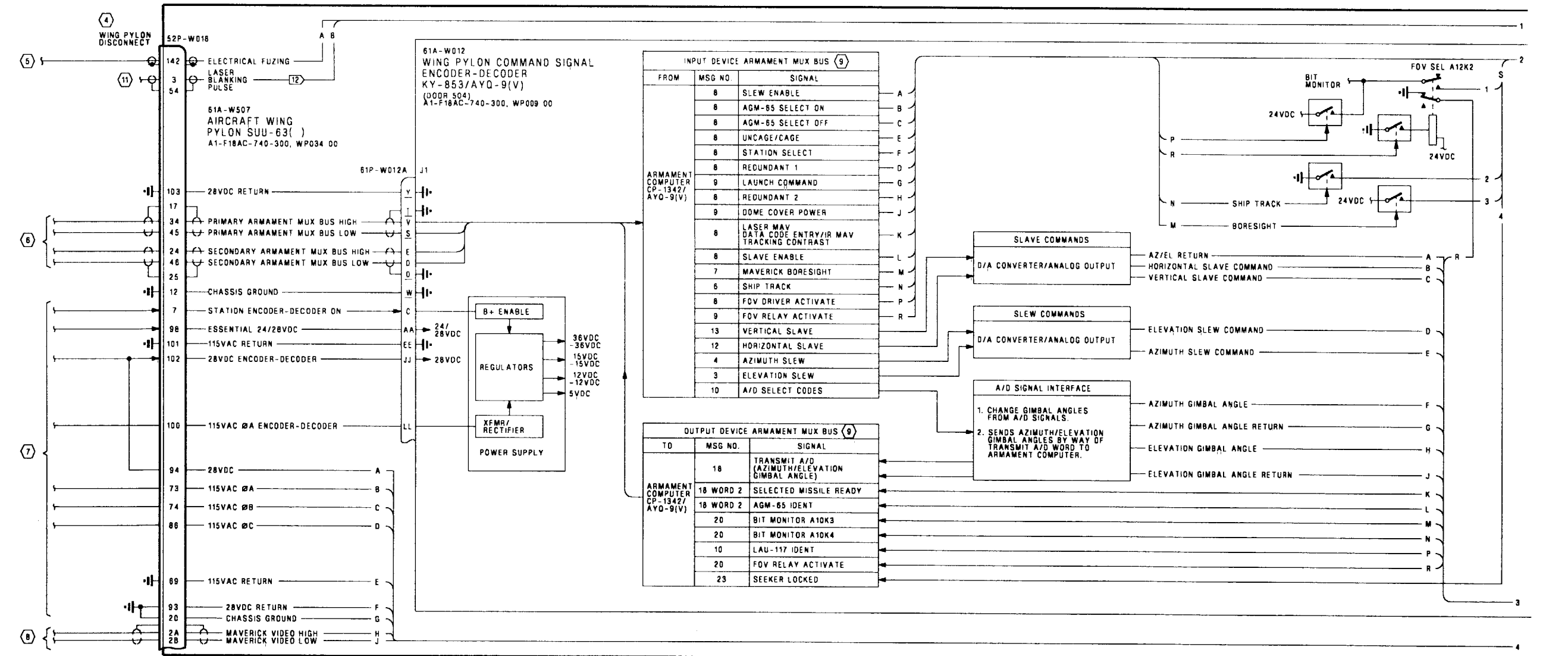


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AGM-65 Maverick Schematic (Sheet 1)



05100102
Figure 1.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
- ④ PYLON DISCONNECT CONNECTOR AND DOOR LOCATION:
 - STATION 2 - 52J-U062 (DOOR 61L)
 - STATION 3 - 52J-U063 (DOOR 60L)
 - STATION 7 - 52J-V067 (DOOR 60R)
 - STATION 8 - 52J-V068 (DOOR 61R)
- ⑤ ELECTRICAL FUZING SCHEMATIC, WP071 00.
- ⑥ AGM-65 MAVERICK AVIONIC INTERFACE SCHEMATIC, WP052 00.
- ⑦ APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC.
 - WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
 - WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.
 - WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.
 - WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
- ⑧ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
- ⑨ ARMAMENT MUX BUS DATA, WP010 00.
- ⑩ EMERGENCY JETTISON SCHEMATIC, WP018 00.
- ⑪ LASER TARGET DESIGNATOR/RANGER INTERCONNECT SCHEMATIC, A1-F18AC-744-500, WP011 00.
- 12 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Figure 1. Weapon Station 2, 3, 7, 8, AGM-65 Maverick Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC AGM-65 MAVERICK AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

Title	WP Number
AGM-65 Maverick Avionic Interface Schematic - 161353 AND UP	
BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	052 01
AGM-64 Maverick Avionic Interface Schematic - 161353 AND UP	
AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	052 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-65 MAVERICK AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A AND UP (A1-F18AC-SCM-000) AND 161353 AND UP BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 48	-	Automatic AC BUS Isolation, Incorporation Of (ECP MDA-F/A-18-00121)	1 Dec 89	ECP Coverage Only

1. **INTRODUCTION**
2. The schematic in this work package shows the aircraft related system functions for the AGM-65 Maverick. The schematic supports weapon station 2, 3, 7 and 8 AGM-65 Maverick schematics.
3. The location of the components on this schematic can be seen in WP008 00.

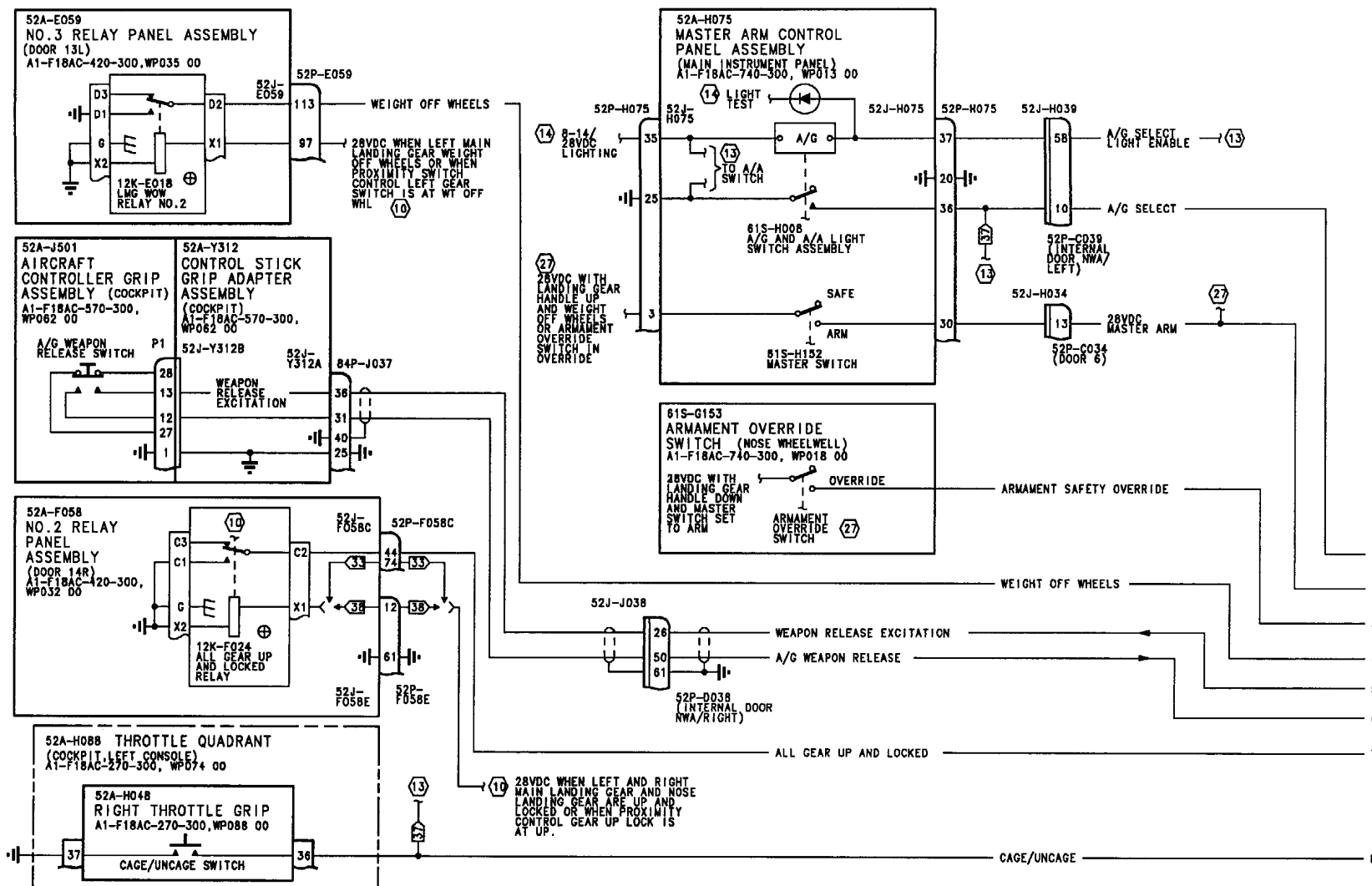


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 1)

Figure 1.

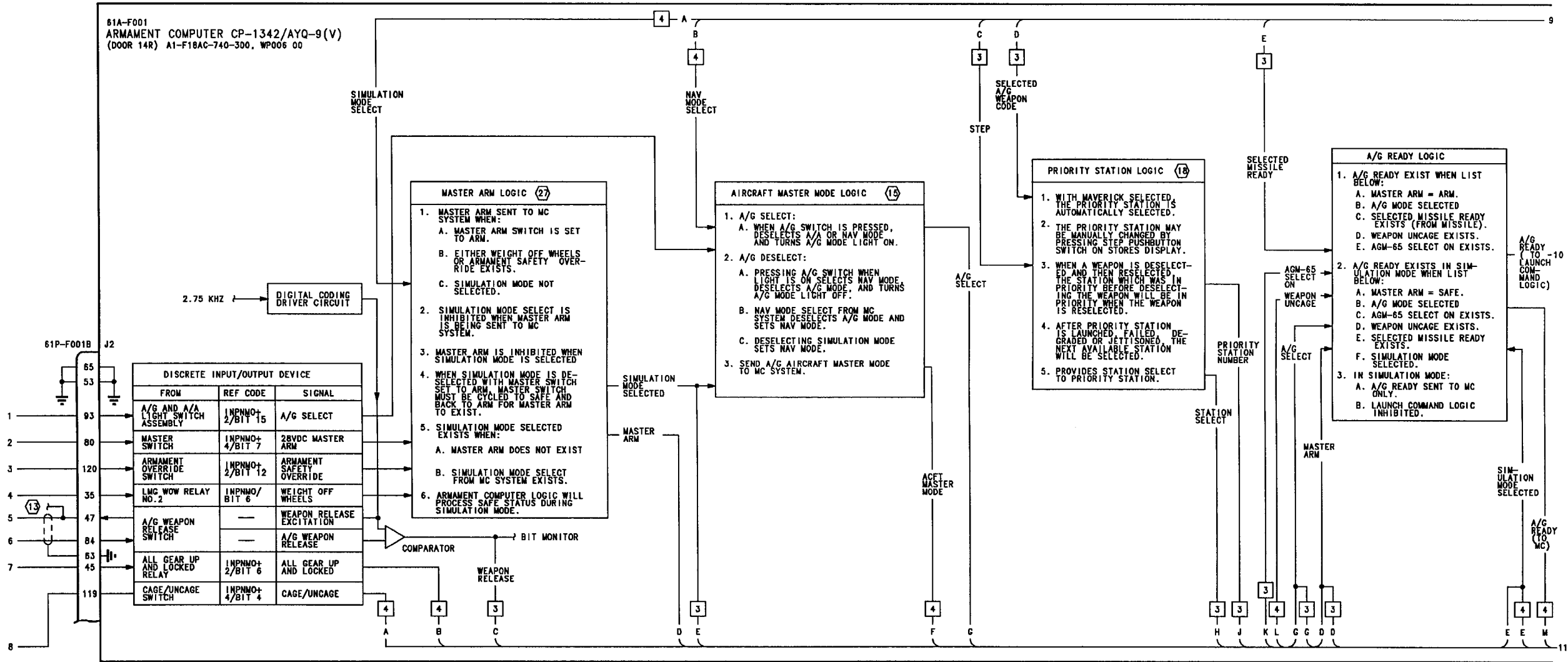


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 2)

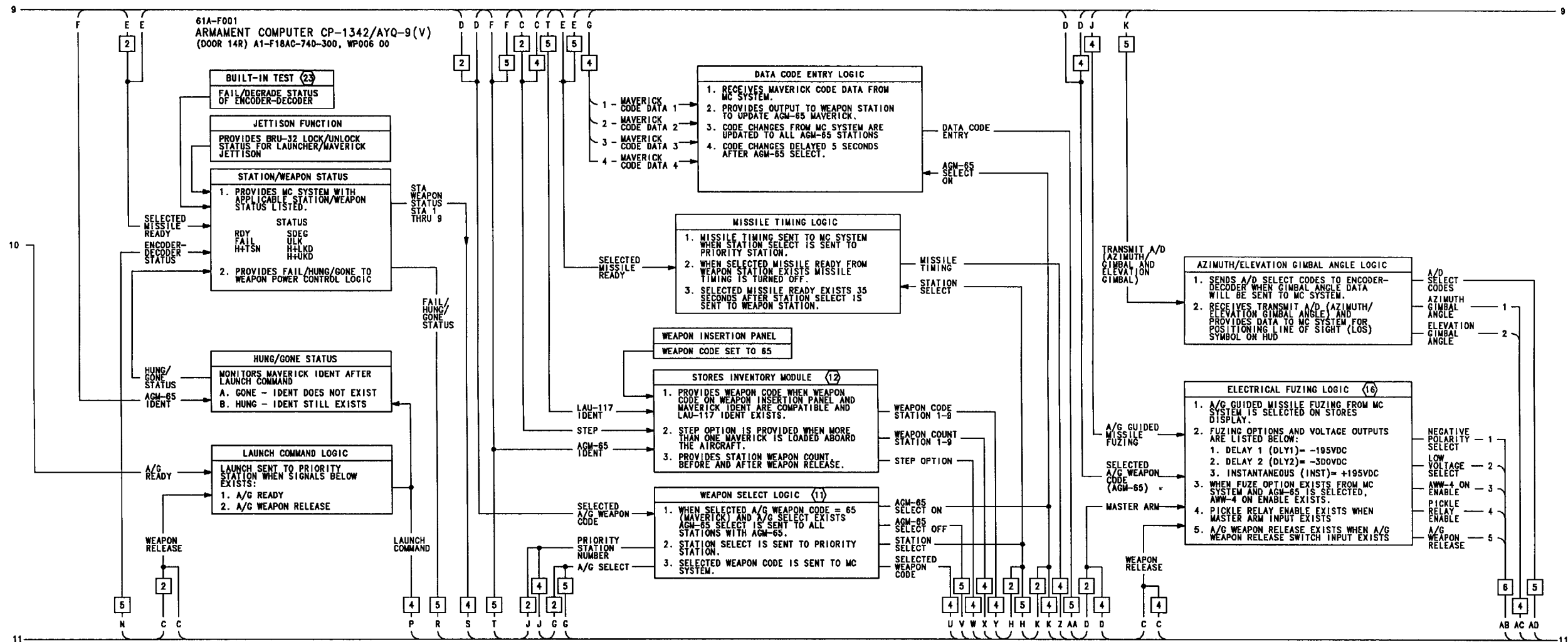


Figure 1.

Figure 1.

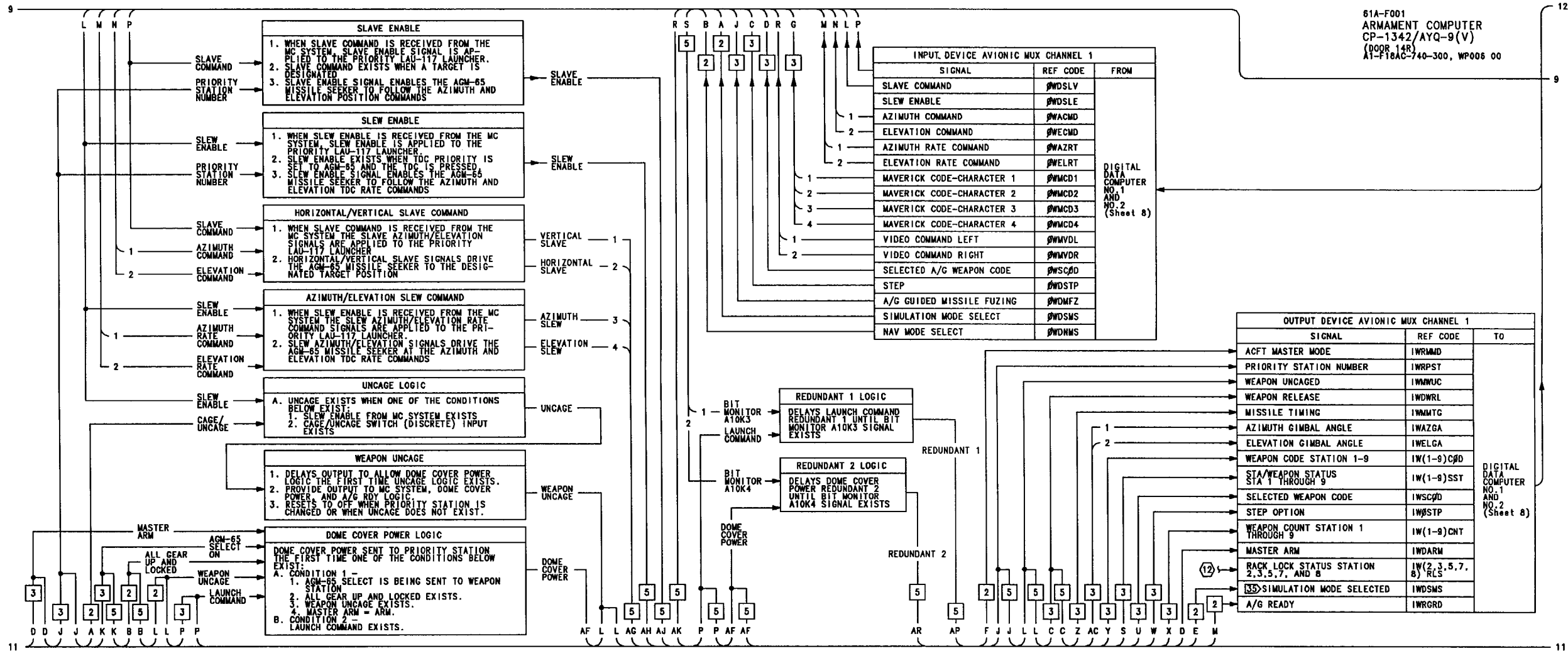


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 4)

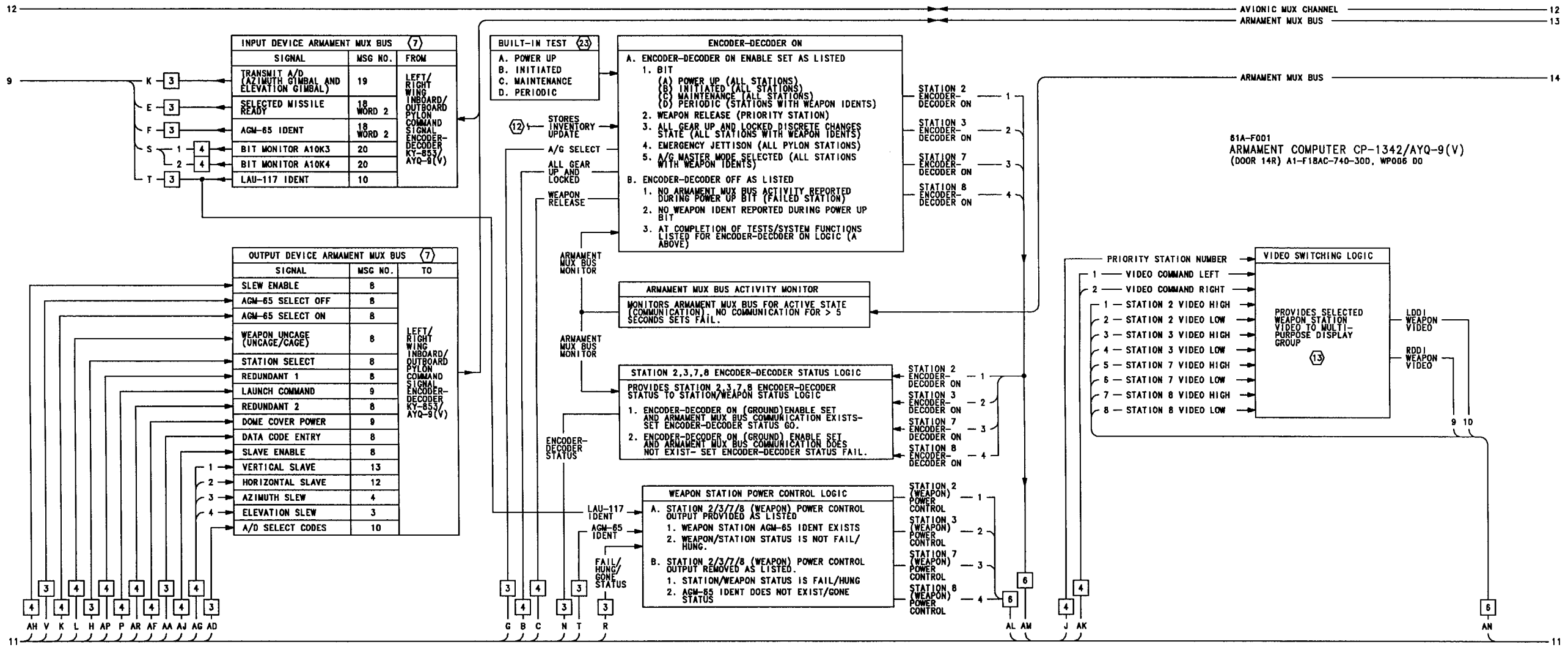


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 5)

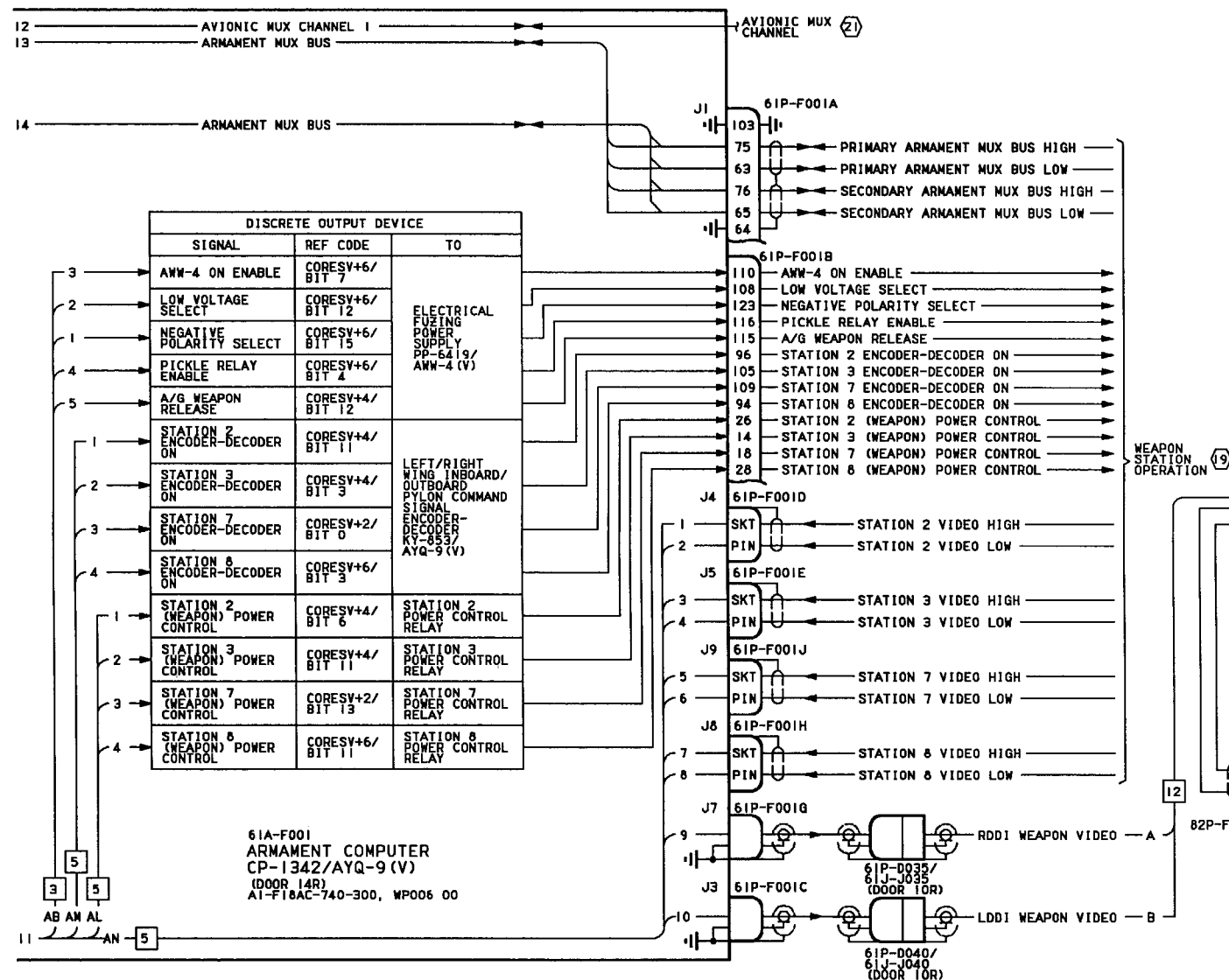


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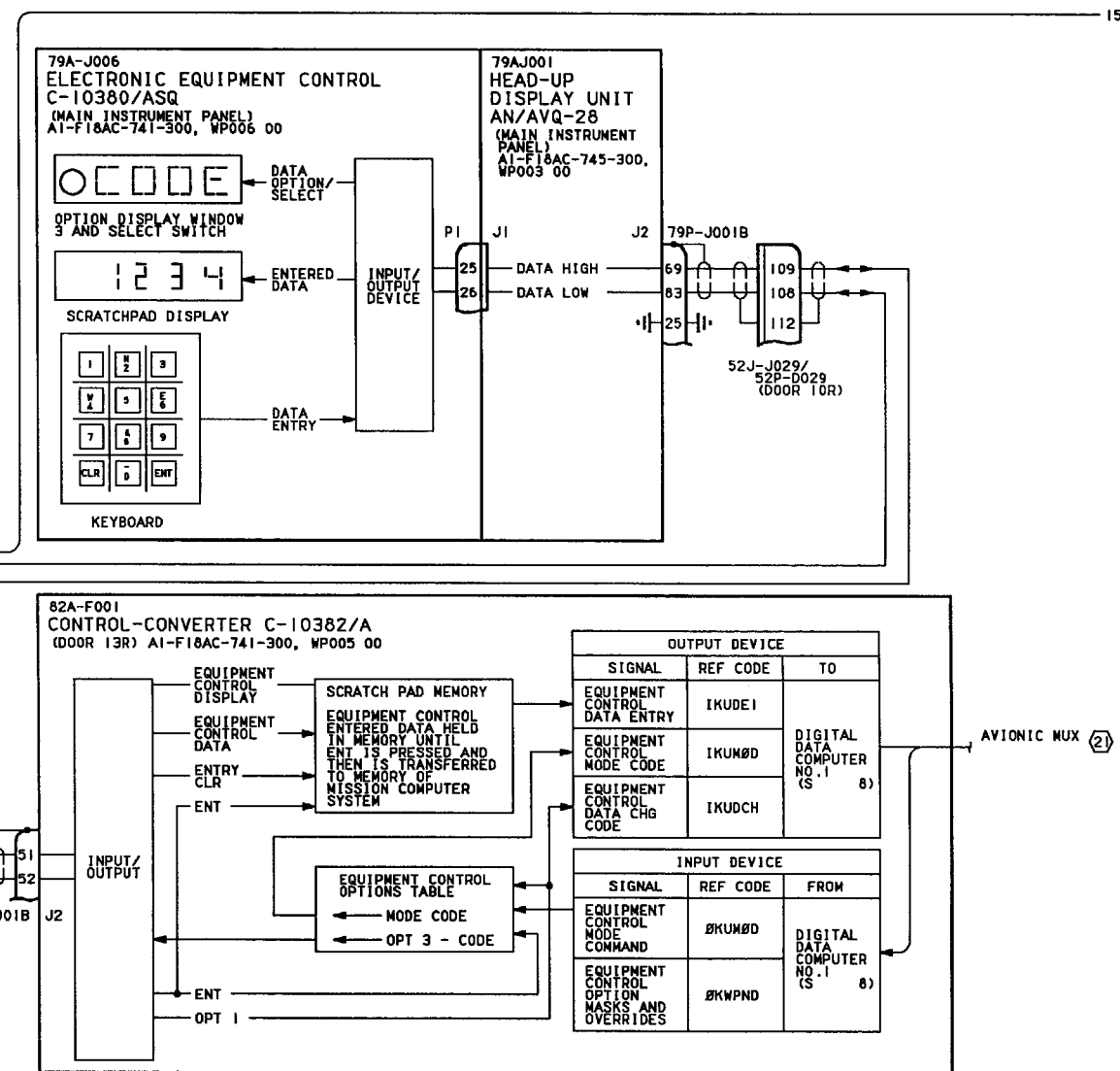


Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 6)

Figure 1.

15

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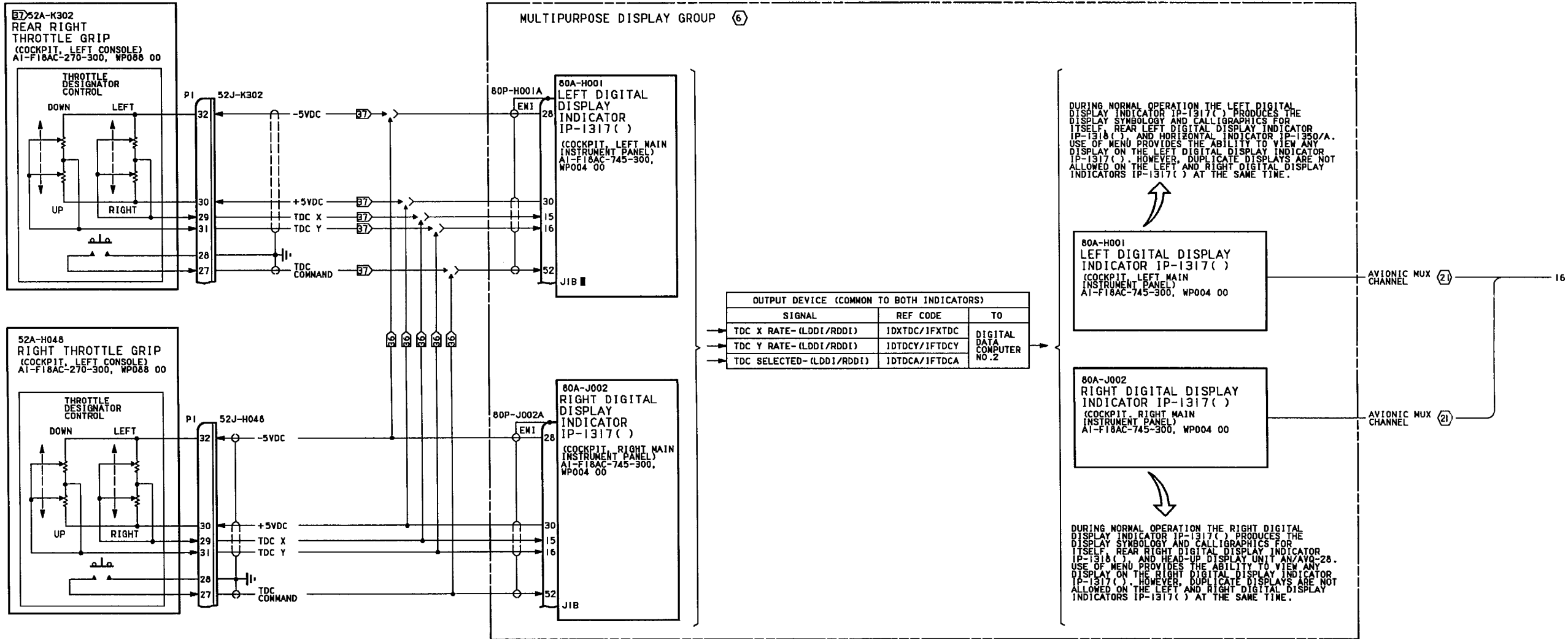


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 7)

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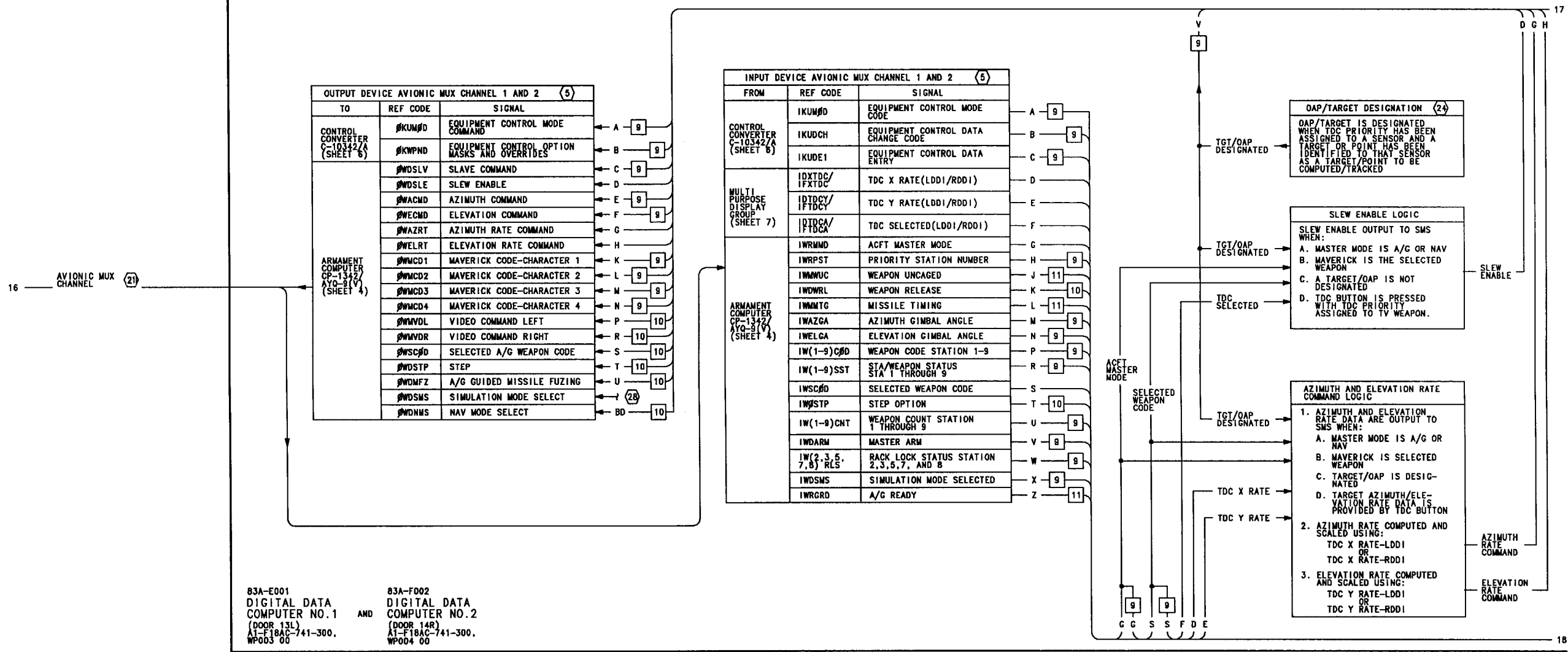


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 8)

Figure 1.

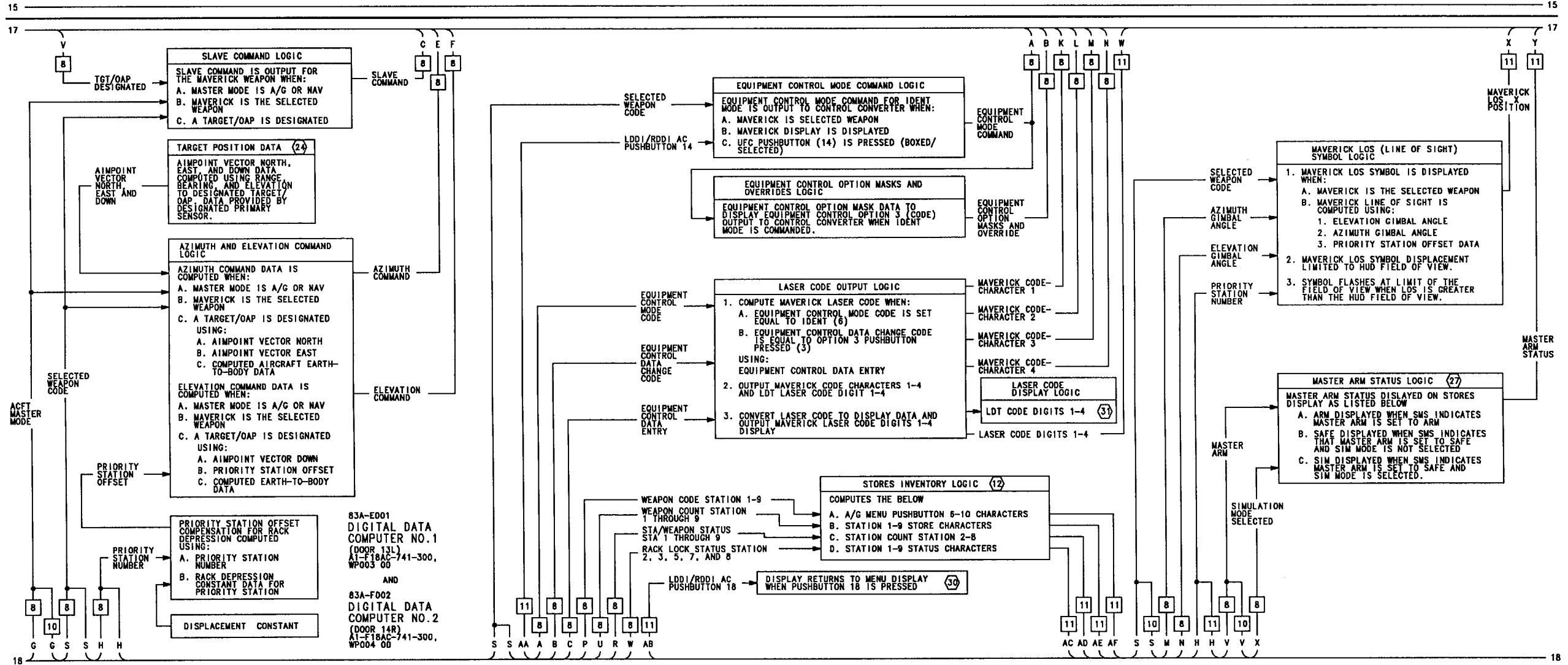


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 9)

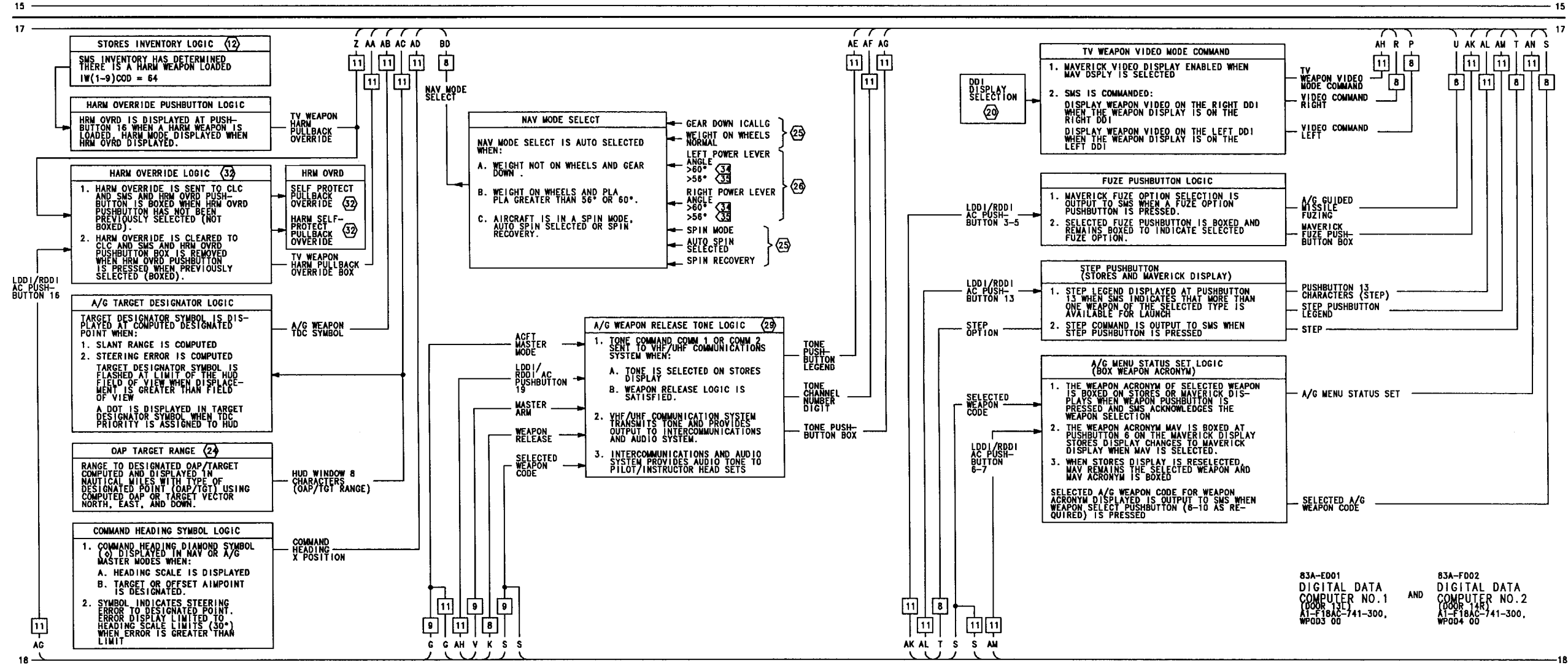


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 10)

Figure 1.

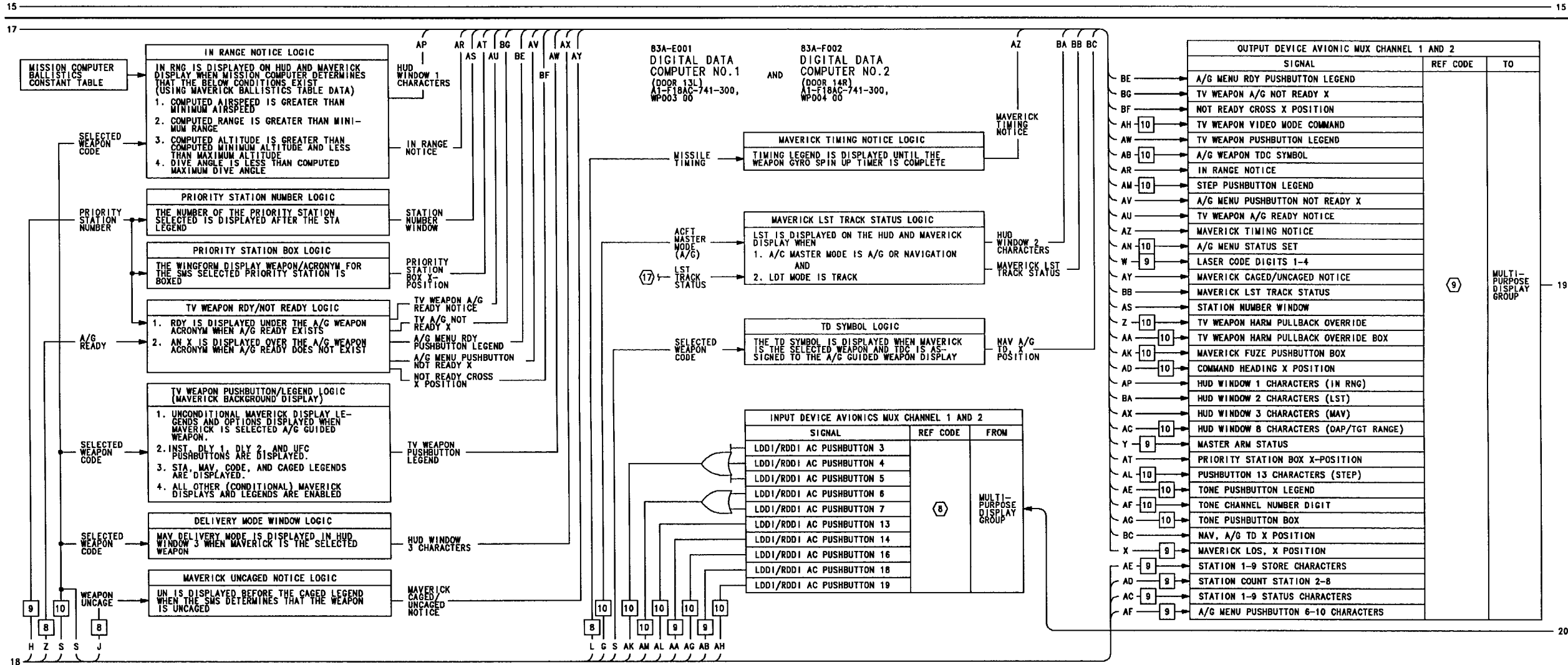


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 11)

Figure 1.

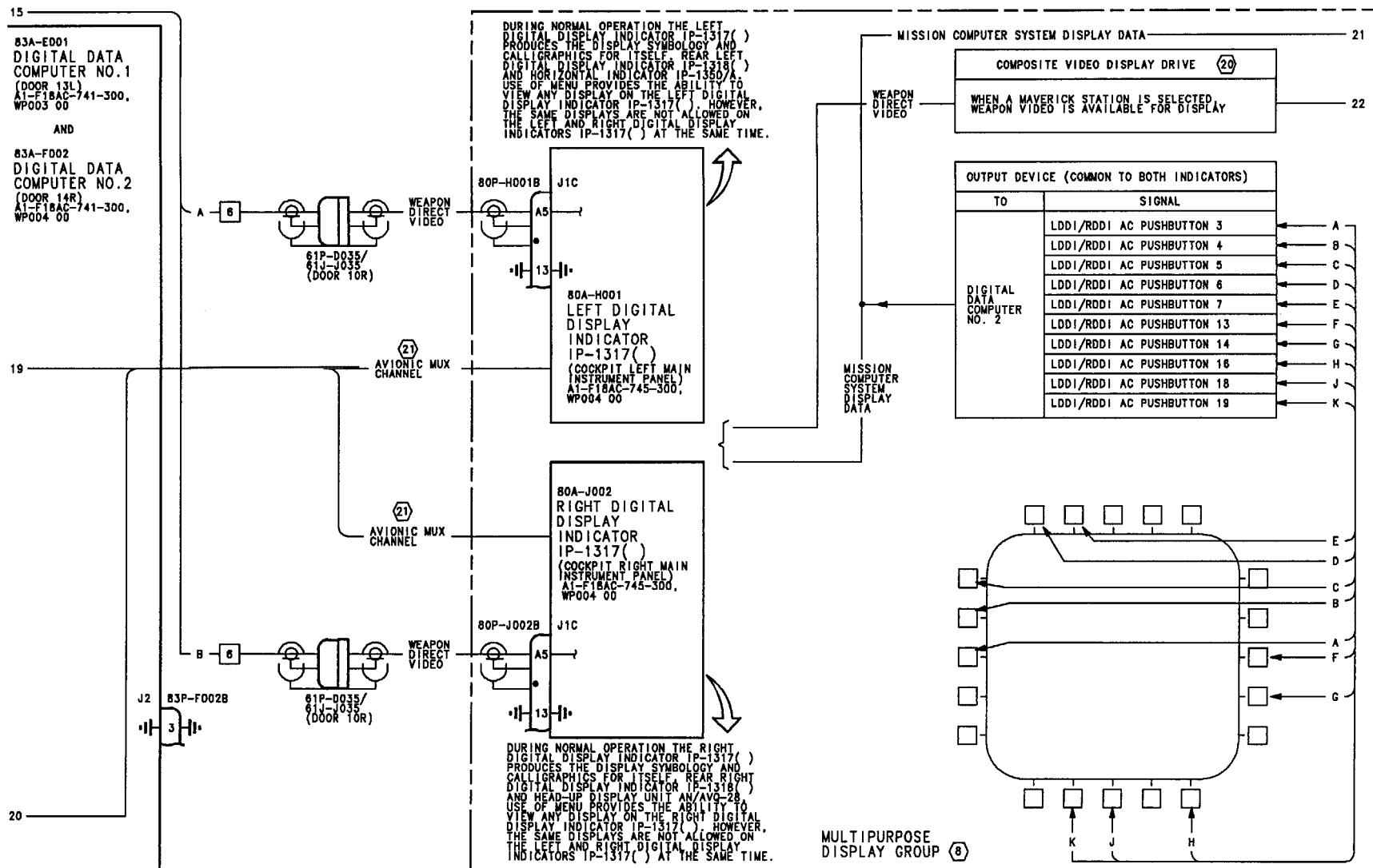


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 12)

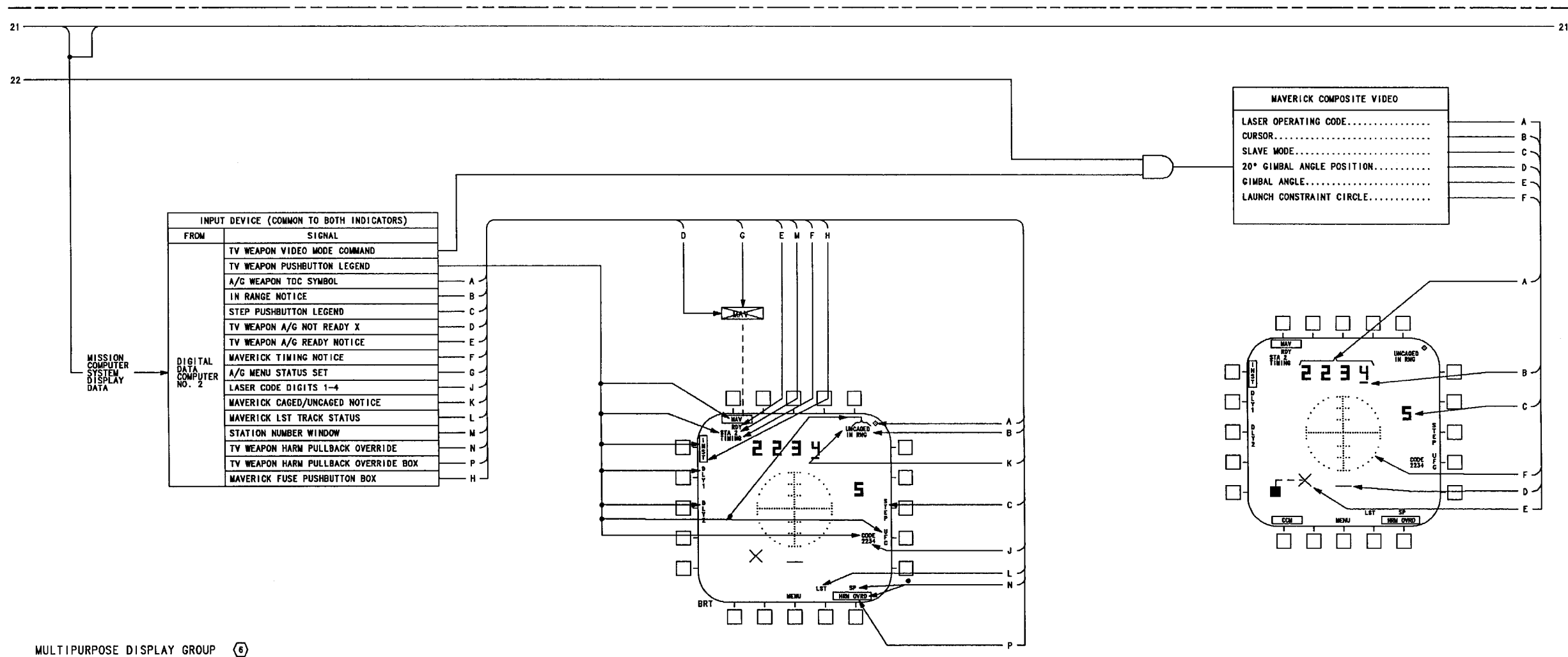


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 13)

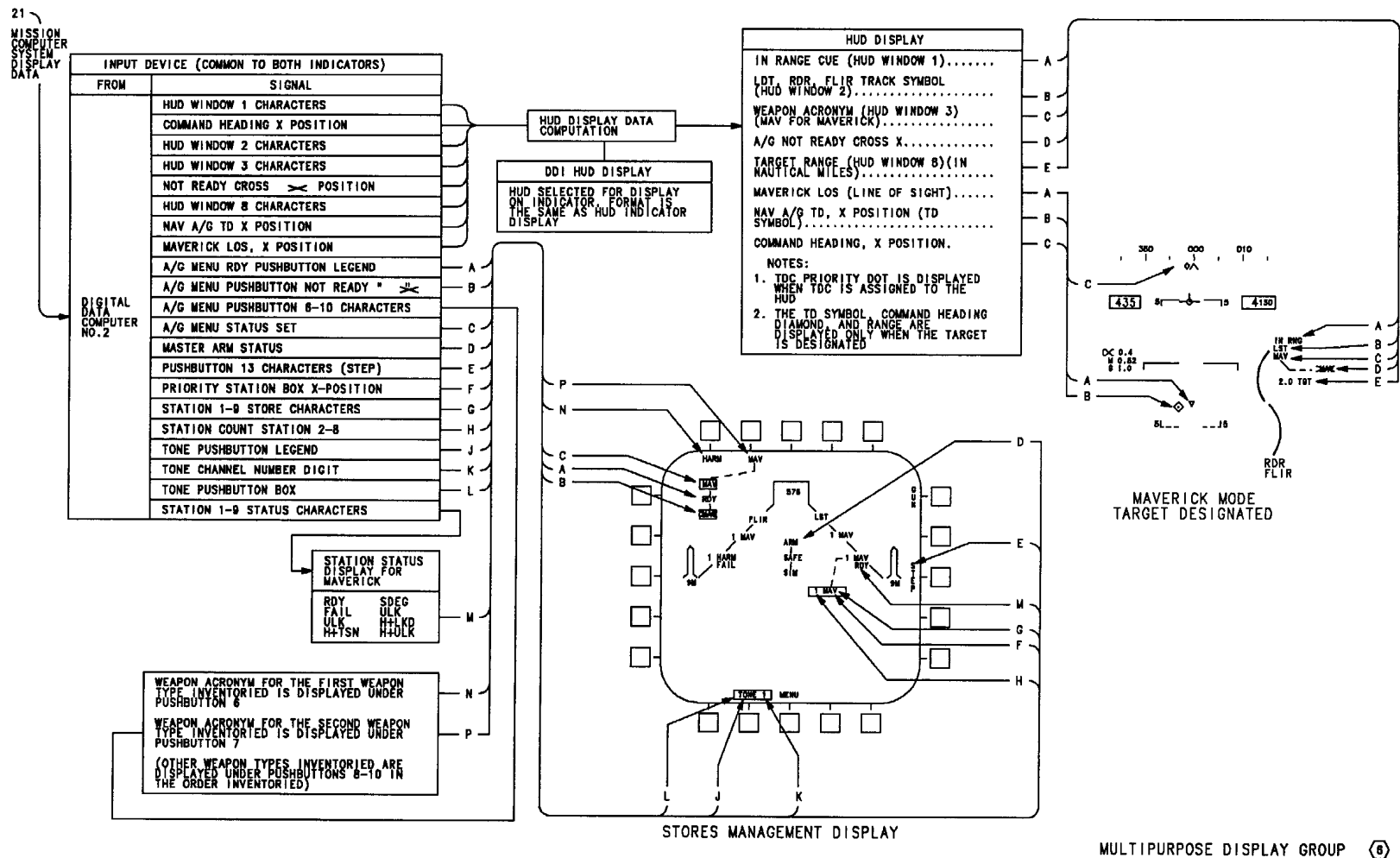


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 14)

Figure 1.

LEGEND		
1.	NONSTANDARD SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST: A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000. B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY. C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE. D. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.	
3.	LINE UNDER LETTER (<u>S</u>) INDICATES LOWER PIN LETTERS.	
4.	ABBREVIATIONS: SEE WP002 01.	
5	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.	16 ELECTRICAL FUZING SCHEMATIC, WP071 00.
6	THE MULTIPURPOSE DISPLAY GROUP IS MADE UP OF THE LEFT DIGITAL DISPLAY INDICATOR IP-1317(), RIGHT DIGITAL DISPLAY INDICATOR IP-1317(), HEAD-UP DISPLAY UNIT AN/AVQ-28, HORIZONTAL INDICATOR IP-1350/A AND ON F/A-18B THE REAR LEFT DIGITAL DISPLAY INDICATOR IP-1318(), REAR RIGHT DIGITAL DISPLAY INDICATOR IP-1318() AND REAR CENTER DIGITAL DISPLAY INDICATOR IP-1318(). FOR MULTIPURPOSE DISPLAY GROUP, REFER TO A1-F18AC-746-500.	17 ACQUISITION AND TRACK SCHEMATIC, A1-F18AC-743-500, WP010 00.
7	ARMAMENT MUX BUS DATA, WP010 00.	18 PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.
8	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON SWITCH ACTION DOES NOT RESULT IN NORMAL INDICATION. TROUBLESHOOT USING; A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	19 APPLICABLE WEAPON STATION AGM-65 MAVERICK SCHEMATIC WEAPON STATION 2, 3, 7, 8 AGM-65 MAVERICK SCHEMATIC (WP051 00)
9	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, TROUBLESHOOT USING A1-F18AC-FRM-000 INPUT REF CODES. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	20 DIGITAL DISPLAY INDICATOR IP-1317() FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP006 00.
10	LANDING GEAR CONTROLLED RELAY SCHEMATIC, A1-F18AC-130-500, WP006 00.	21 SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
11	WEAPON SELECT SCHEMATIC, WP016 00.	22 DELETED
12	STORES INVENTORY SCHEMATIC, WP015 00.	23 BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
13	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	24 BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.
14	COCKPIT WARNING/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.	25 CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.
15	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	26 APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
		27 MASTER ARM SCHEMATIC, WP017 00.
		28 SIMULATION MODE SELECT SCHEMATIC, WP022 00.
		29 AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.
		30 MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTION SCHEMATIC, A1-F18AC-745-500, WP010 00.
		31 LASER CODE ENTRY SCHEMATIC, A1-F18AC-743-500, WP009 00.
		32 AGM-88 HARM AVIONIC INTERFACE SCHEMATIC - SELF-PROTECT (SP) MODE, WP058 00.
		33 161353 THRU 161987 BEFORE F/A-18 AFC 48.
		34 161353 THRU 161528.
		35 161702 AND UP.
		36 F/A-18A.
		37 F/A-18B.
		38 162894 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 48.

Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 15)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-65 MAVERICK AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR AFC 292

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
- Maverick. This schematic supports weapon station
2, 3, 7, 8 AGM-65 Maverick schematic WP051 00.
2. The schematic in this work package shows the
aircraft related system functions for the AGM-65
3. Component locations are shown in WP008 00.



Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 1)

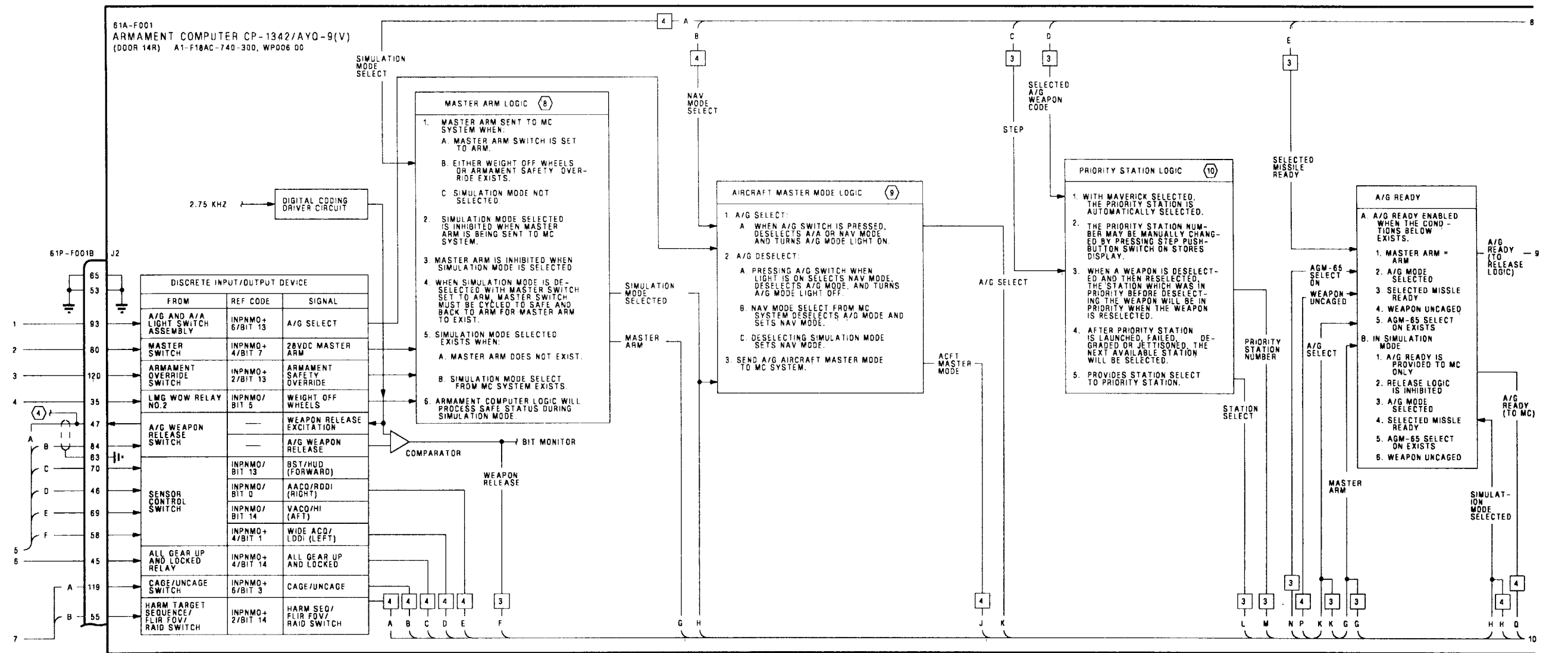
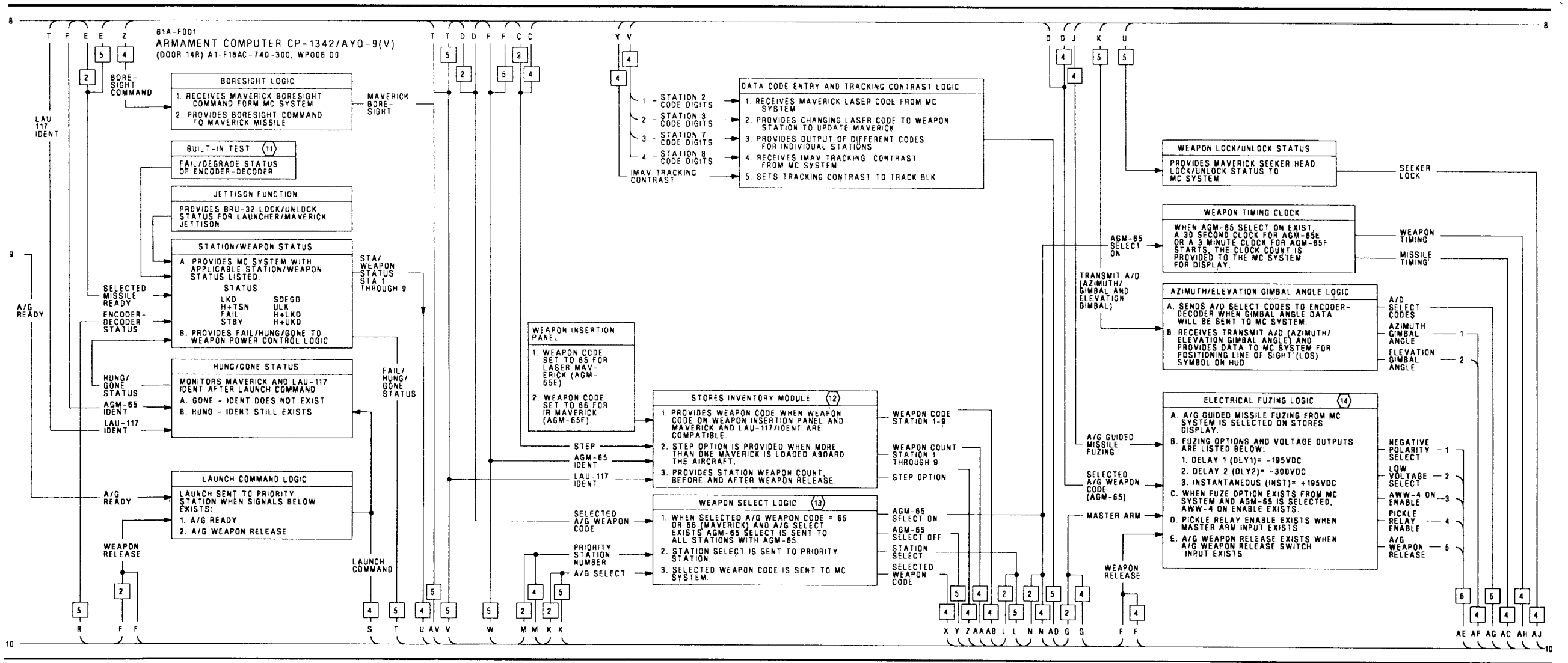


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 2)



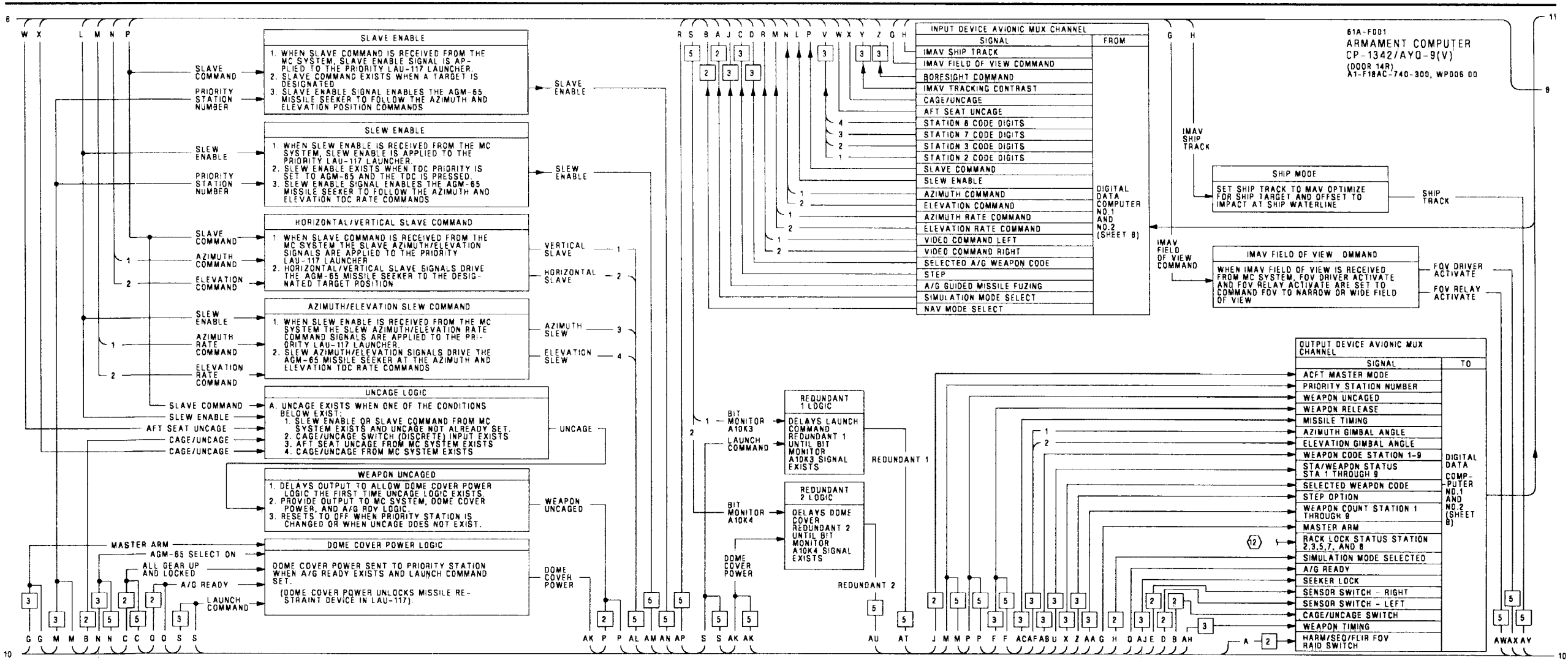


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 4)

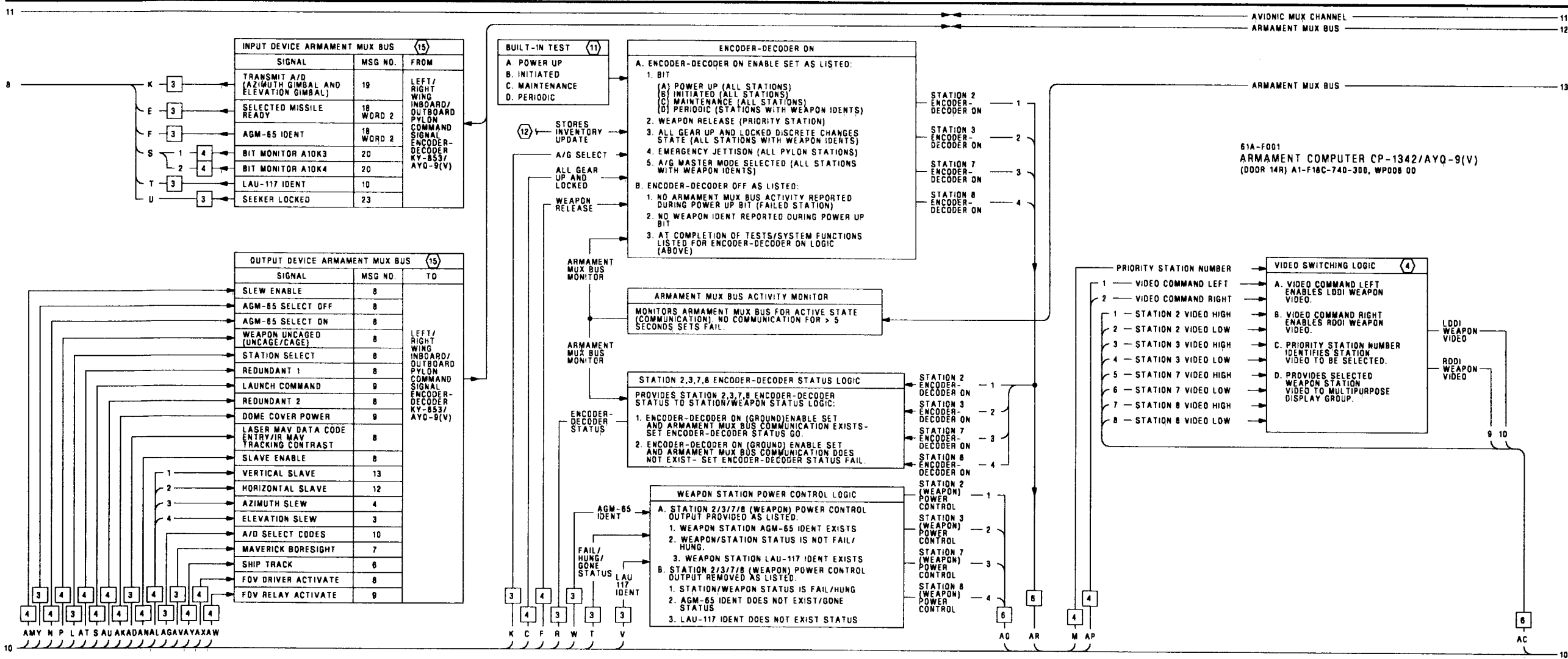


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 5)

Figure 1.

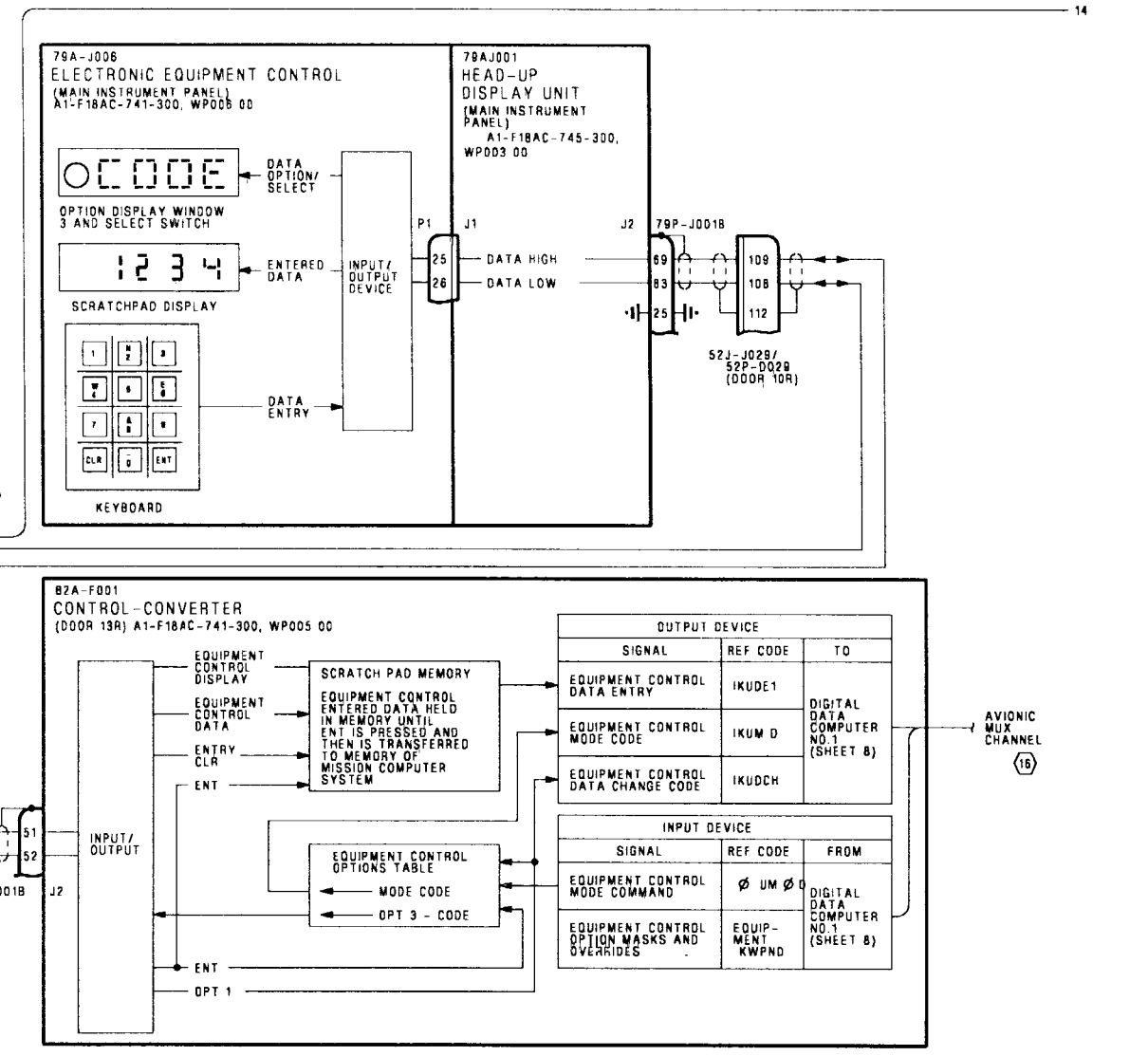
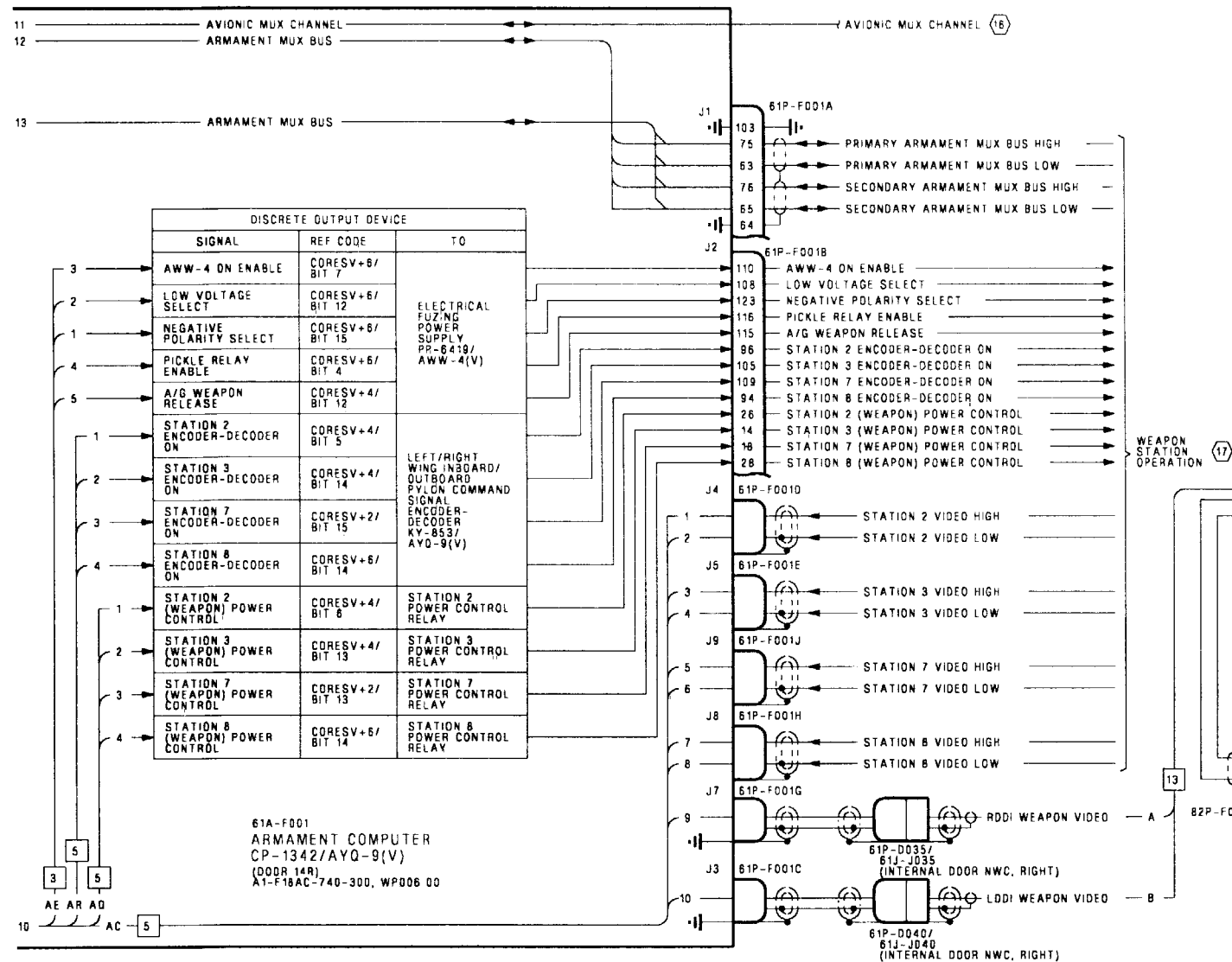


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 6)

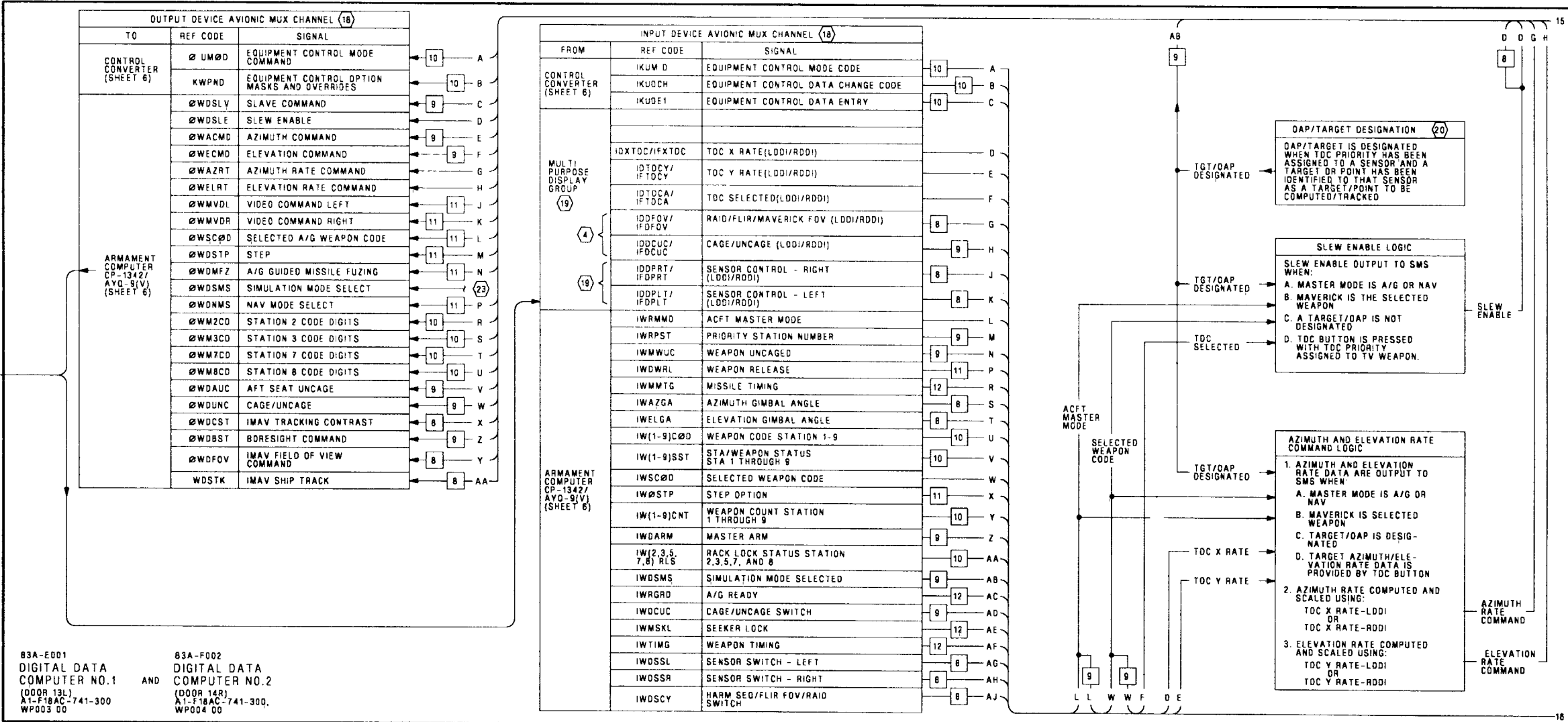


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 7)

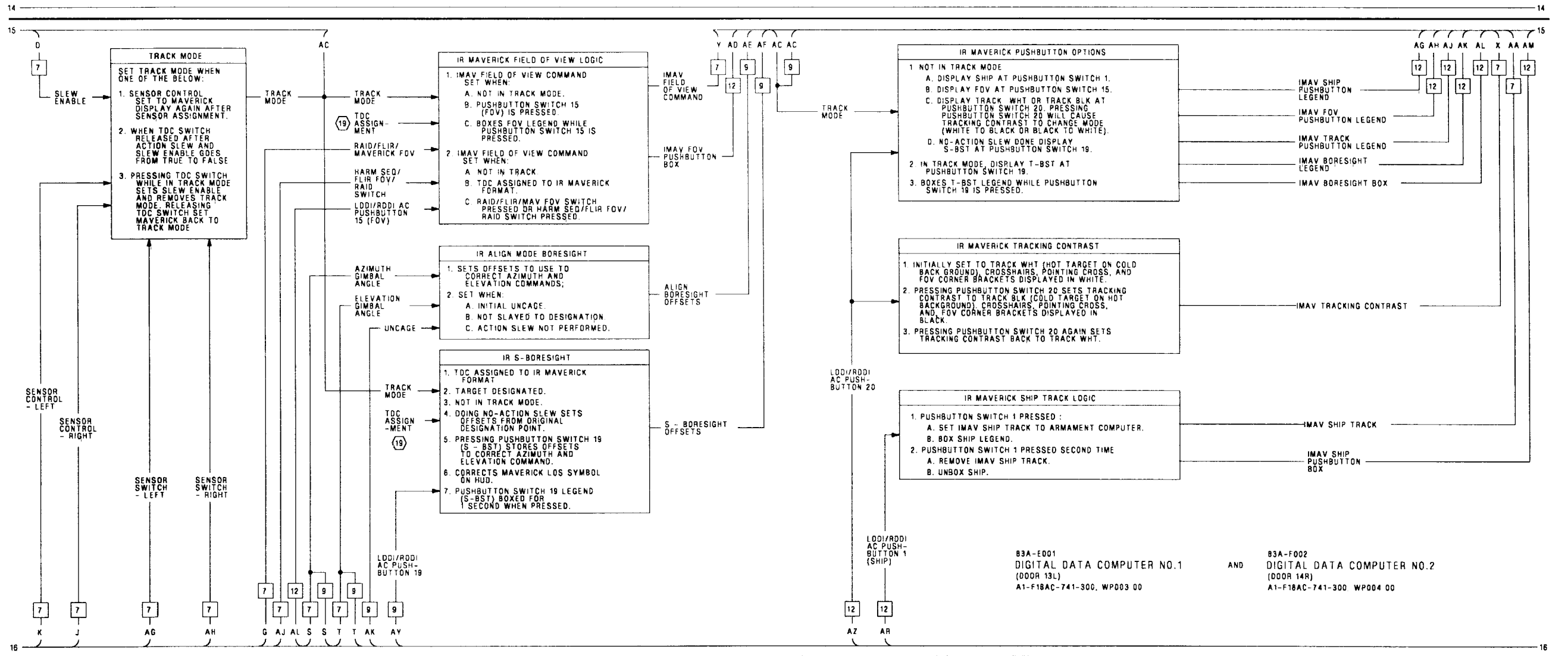


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 8)

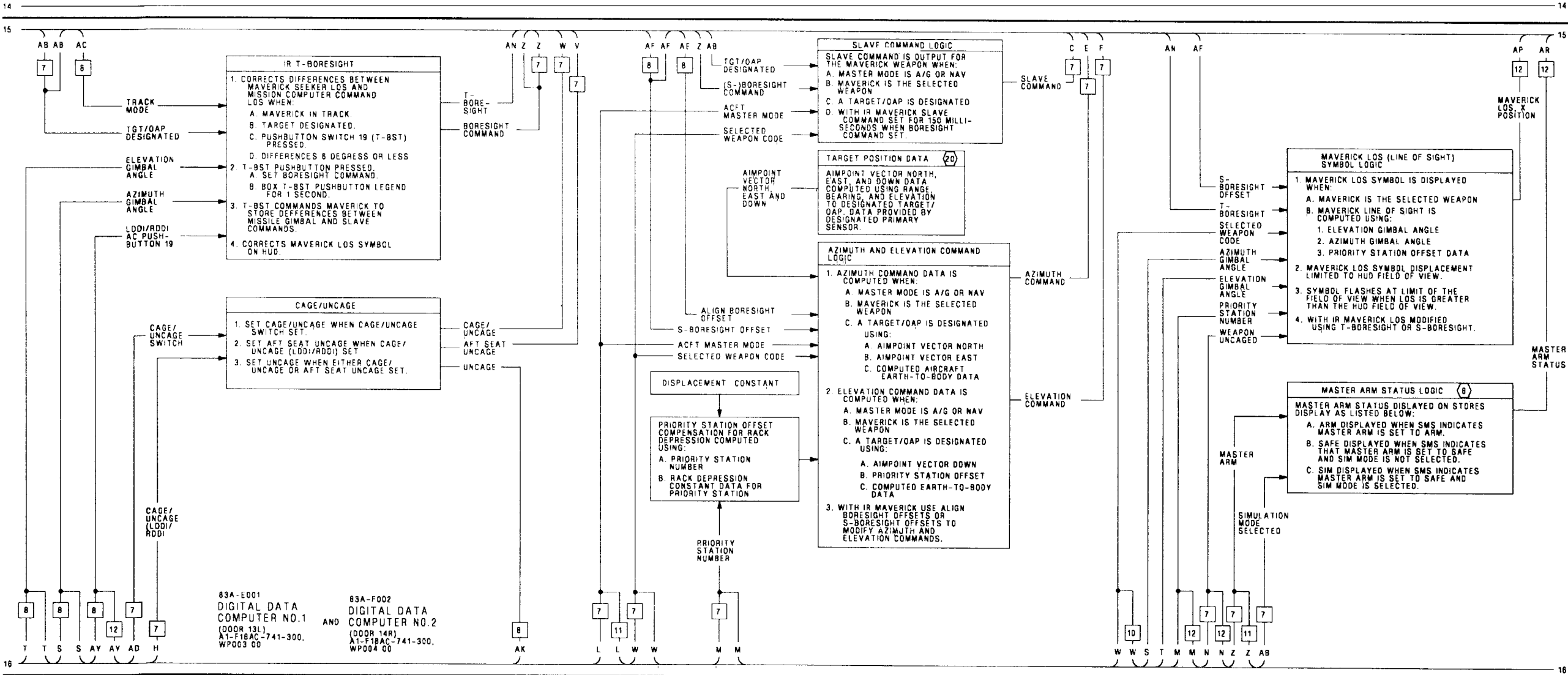
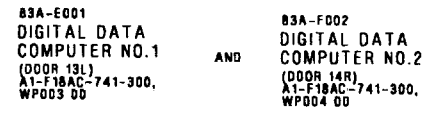


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 9)



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Figure 1.

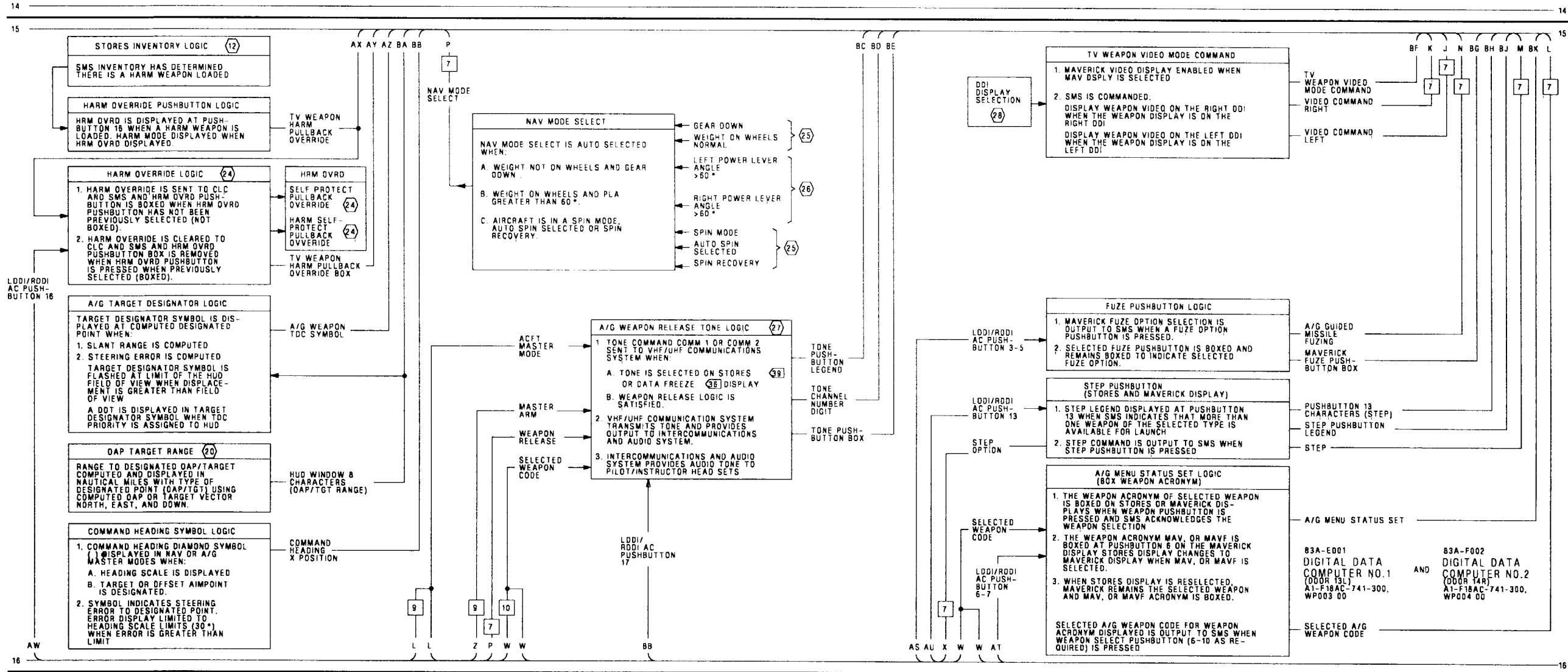


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 11)

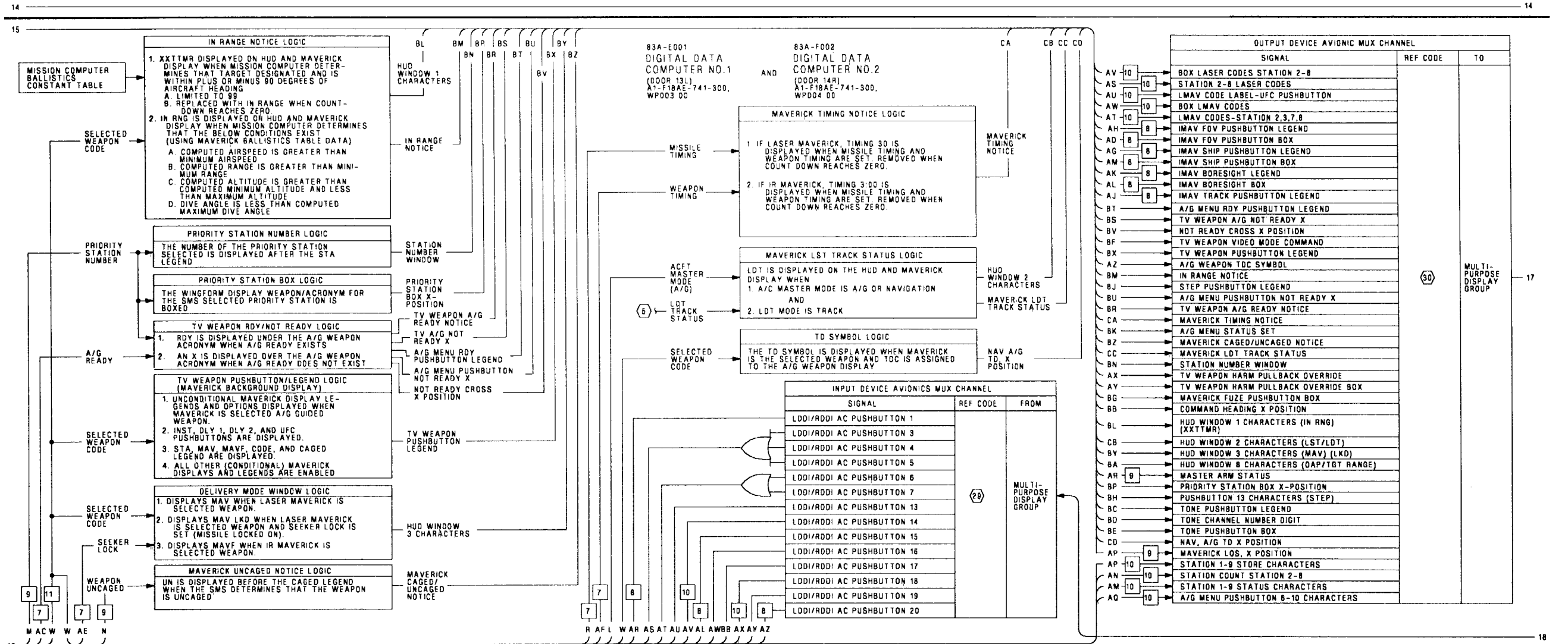


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 12)

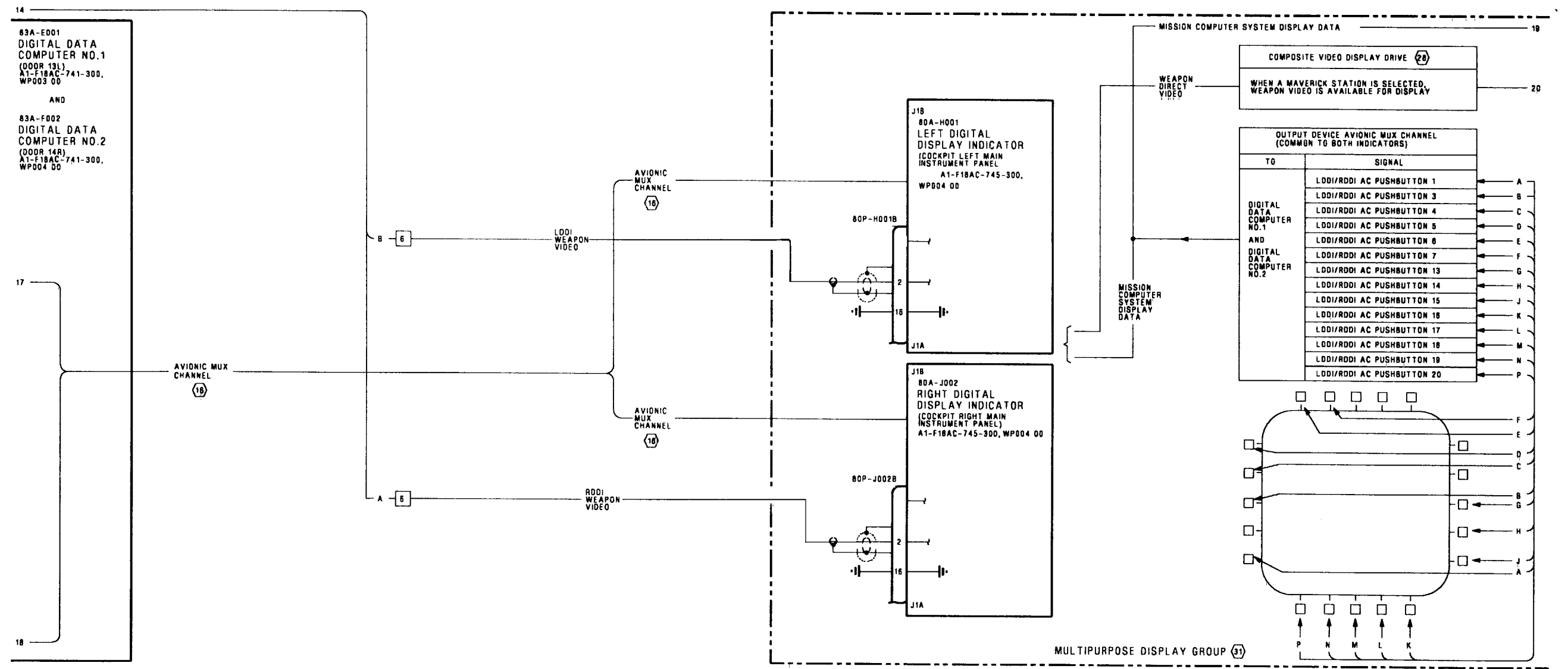


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 13)

Figure 1.

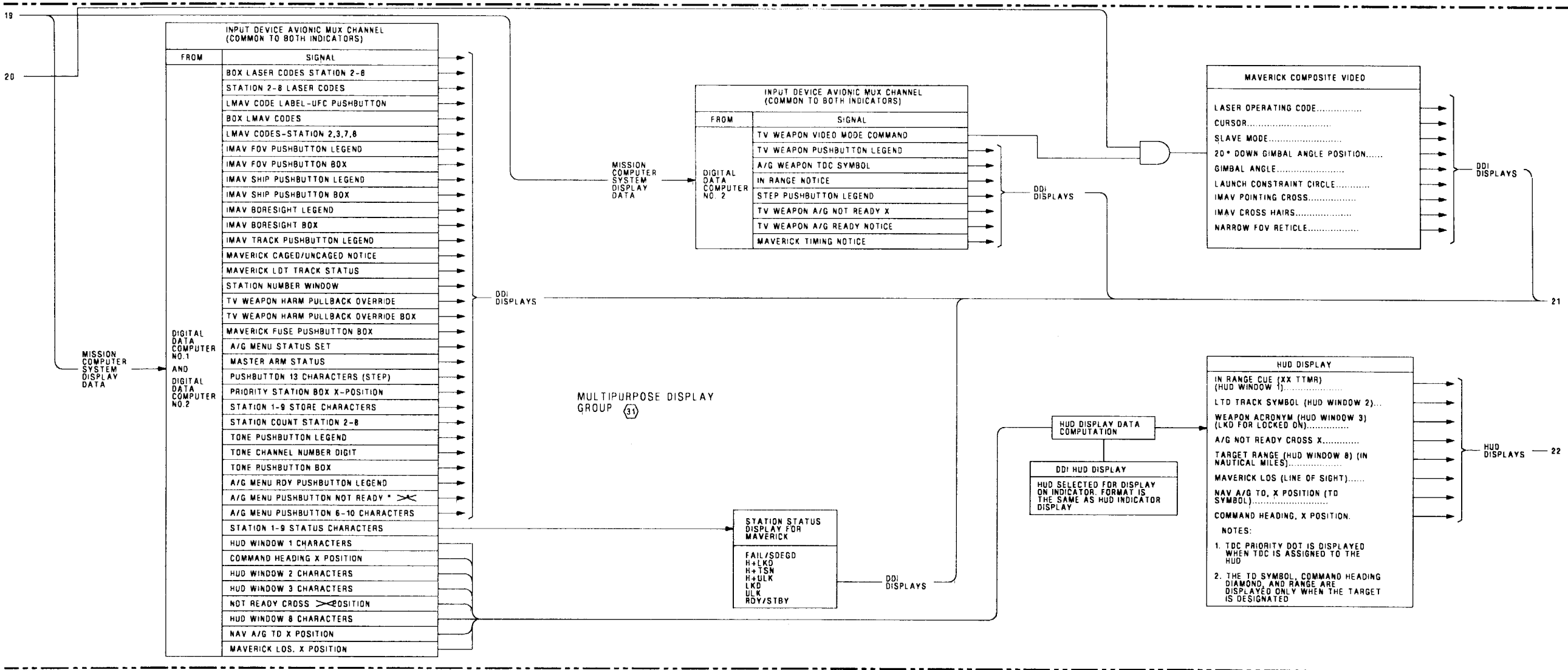


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 14)

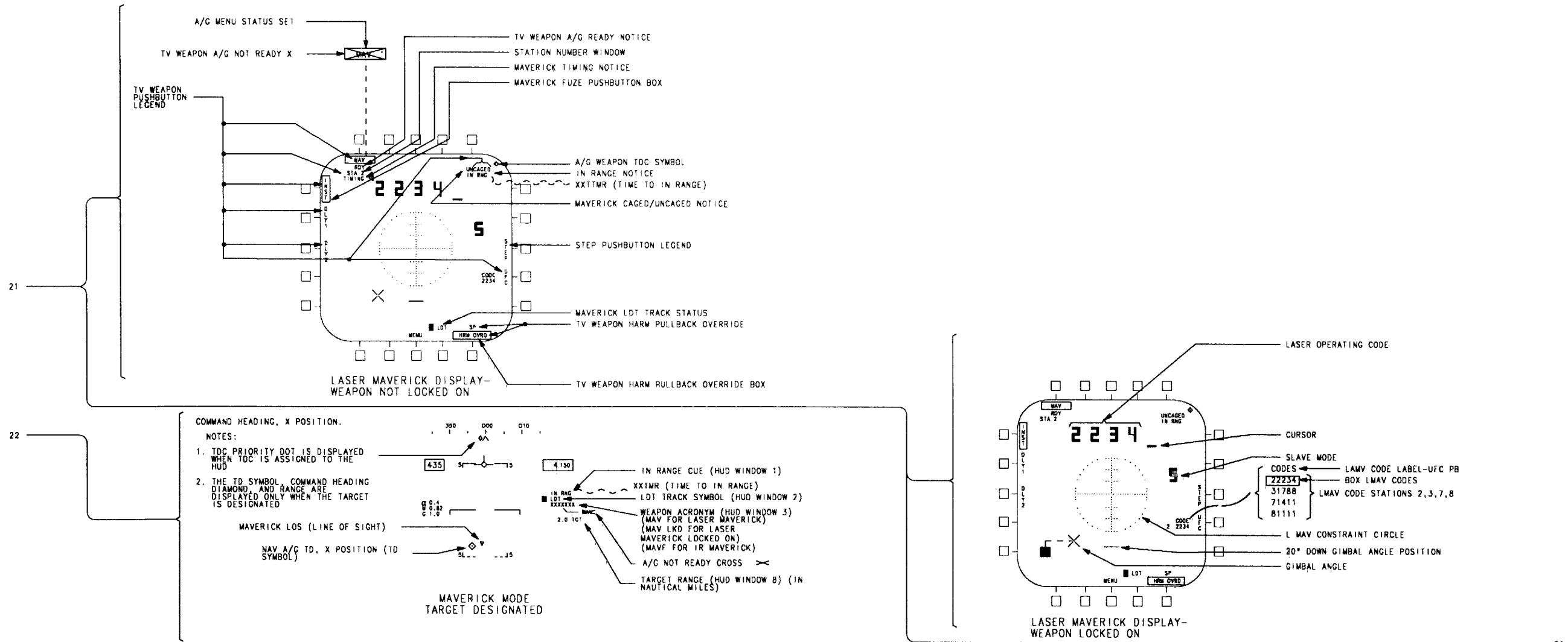


Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 15)

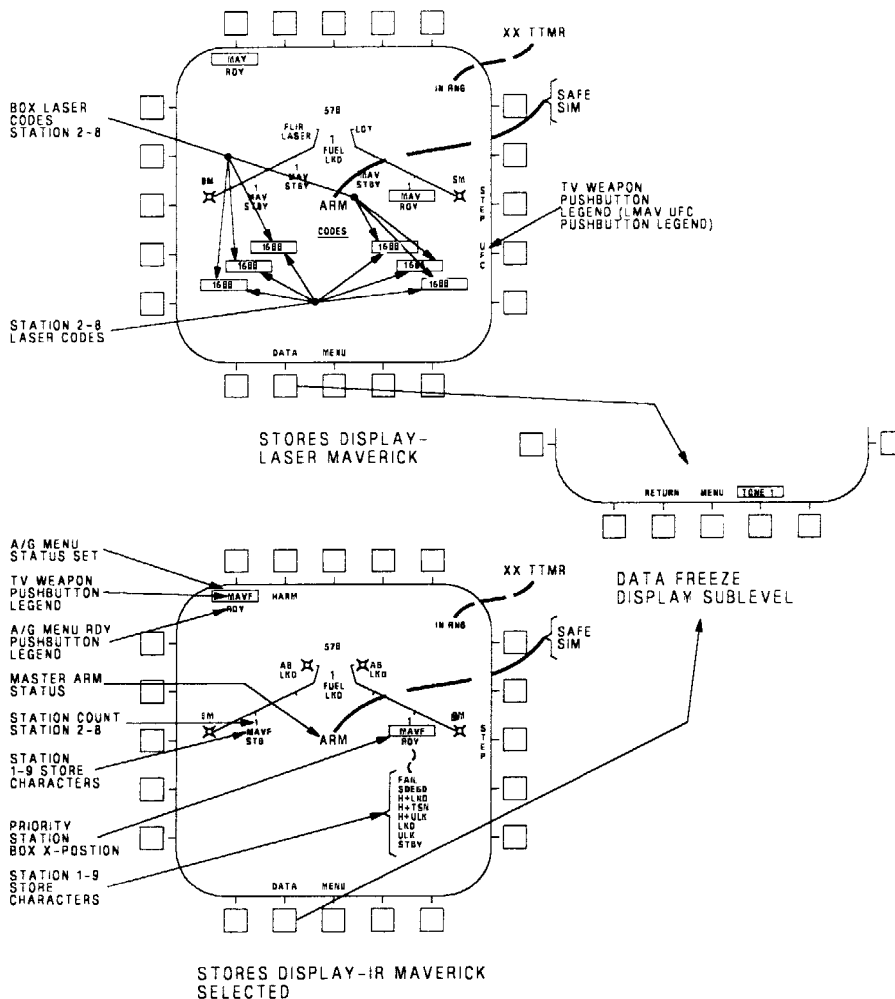
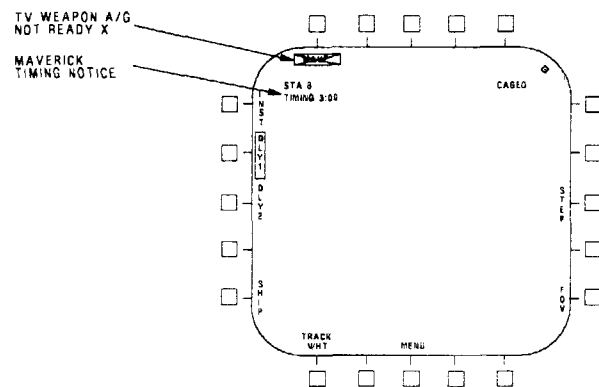
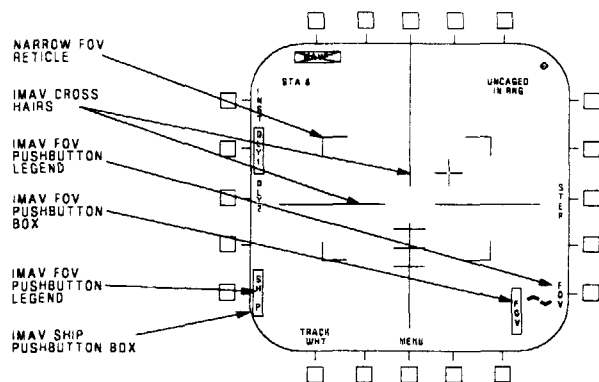


Figure 1.

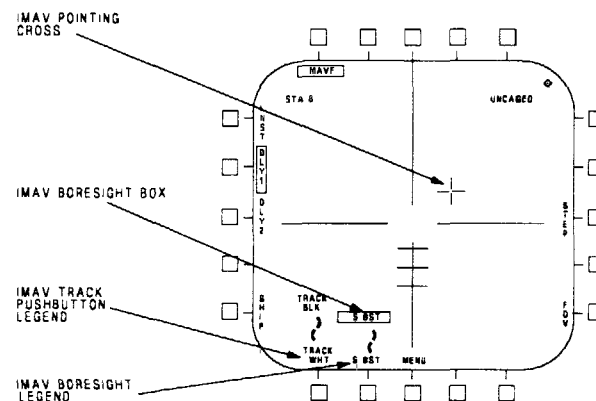
Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 16)



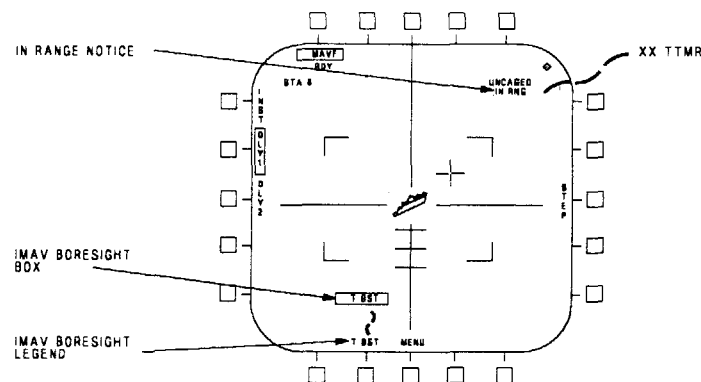
IR MAVERICK DISPLAY-INITIALIZED



IR MAVERICK DISPLAY-WIDE FOV SELECTED



IR MAVERICK DISPLAY-NARROW FOV SELECTED



IR MAVERICK DISPLAY-TRACK MODE

LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST:	
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A(-)-WDM-000.	17
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCIETY FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	18
	C. WHEN TESTING CONTINUITY, TEST FOR:	19
	(1) SHORTS TO GROUND.	20
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	21
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	22
	(4) SHIELD CONTINUITY.	23
3.	LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.	24
4	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	25
5	ACQUISITION AND TRACK SCHEMATIC, A1-F18AC-743-500, WP010 00.	26
6	LANDING GEAR CONTROLLED RELAY SCHEMATIC, A1-F18AC-130-500, WP006 00.	27
7	COCKPIT WARNING/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.	28
8	MASTER ARM SCHEMATIC, WP017 00.	29
9	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	30
10	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.	31
11	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.	
12	STORES INVENTORY SCHEMATIC, WP015 00.	
13	WEAPON SELECT SCHEMATIC, WP016 00.	
14	ELECTRICAL FUZING SCHEMATIC, WP071 00.	
15	ARMAMENT MUX BUS DATA, WP010 00.	
16	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	
	WEAPON STATION 2, 3, 7 AND 8 AGM-65 MAVERICK SCHEMATIC, WP051 00.	
	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.	
	SENSOR CONTROL SWITCH AND THROTTLE DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.	
	BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.	
	MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTION SCHEMATIC, A1-F18AC-745-500, WP010 00.	
	LASER CODE ENTRY SCHEMATIC, A1-F18AC-743-500, WP009 00.	
	SIMULATION MODE SELECT SCHEMATIC, WP022 00.	
	AGM-88 HARM SELF-PROTECT (SP) MODE AVIONIC INTERFACE SCHEMATIC, WP058 00.	
	CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.	
	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.	
	AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.	
	DIGITAL DISPLAY INDICATOR FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP006 00.	
	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON SWITCH ACTION DOES NOT RESULT IN NORMAL INDICATION, TROUBLESHOOT USING, A1-F18AC-745-200 WP004 00 (F/A-18A)	
	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST, A1-F18AC-745-200, WP004 00 (F/A-18A).	
	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.	

Figure 1.

Figure 1. AGM-65 Maverick Avionic Interface Schematic (Sheet 18)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 AGM-84

STORES MANAGEMENT SYSTEM

Reference Material

None

Alphabetical Index

Subject	Page No.
Introduction	1
Weapon Station 2, 3, 7, 8 Schematic, Figure 1	2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**

2. The schematic in this work package shows system functions for the AGM-84 when loaded on weapon stations 2, 3, 7, 8.
3. The location of the components on this schematic can be seen in WP008 00.

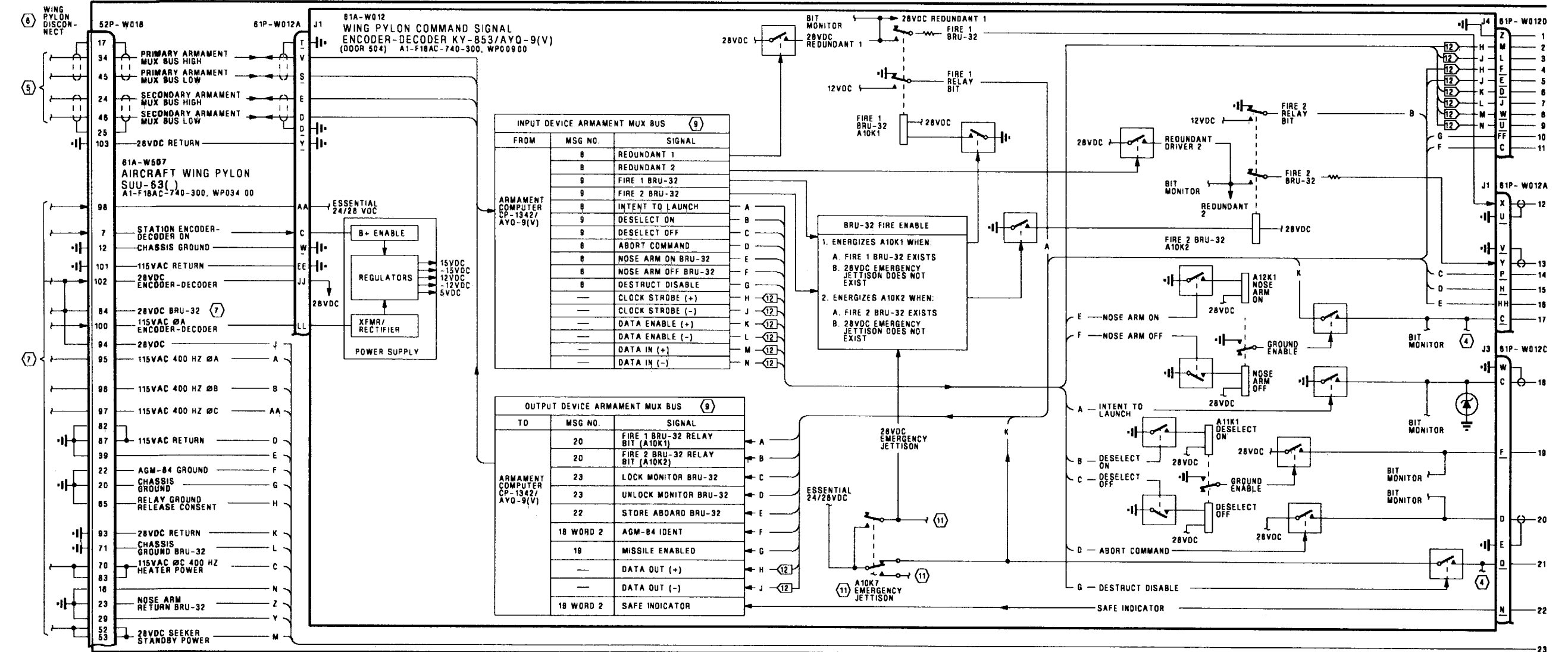
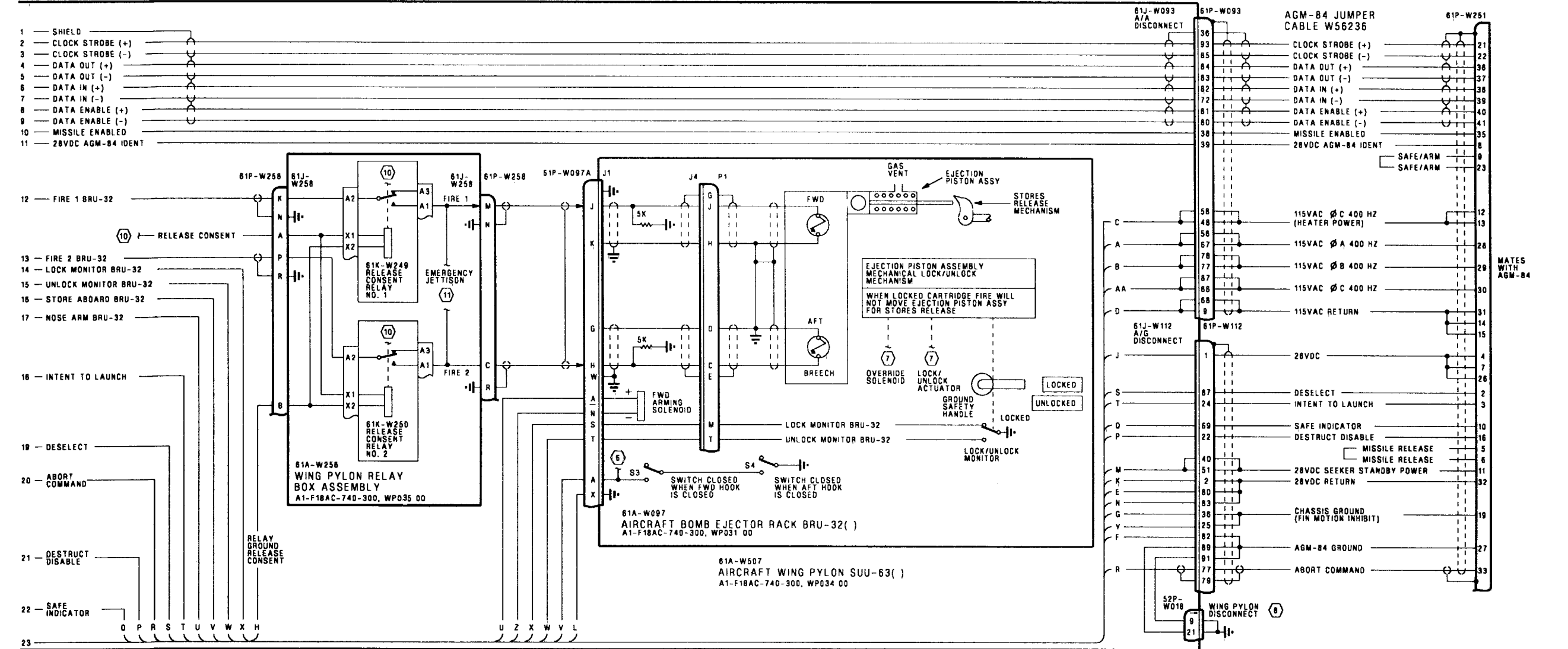


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 AGM-84 Schematic (Sheet 1)



05300102

Figure 1.

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC AGM-84 AVIONICS INTERFACE****STORES MANAGEMENT SYSTEM**

Title	WP Number
AGM-84 Avionics Interface Schematic - 161353 AND UP	
BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	054 01
AGM-84 Avionics Interface Schematic (Harpoon) - 161353 AND UP	
AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	054 02
AGM-84 Avionics Interface Schematic (SLAM) - 161353 AND UP	
AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	054 03
AGM-84 Avionics Interface Schematic (SLAM ER) - 161353 AND UP	
AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	054 04

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - AGM-84 AVIONICS INTERFACE****STORES MANAGEMENT SYSTEM**

**EFFECTIVITY: 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 74,
AND 161353 AND UP BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292**

Reference Material

None

Alphabetical Index

Subject	Page No.
AGM-84 Avionic Interface Schematic, Figure 1	2
Introduction	1

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 48	-	Automatic AC BUS Isolation, Incorporation Of (ECP MDA-F/A-18-00121)	1 Dec 89	ECP Coverage Only

1. INTRODUCTION.

2. The work package shows the aircraft system functions related to the AGM-84. The Schematic supplements weapon station 2, 3, 7 and 8 AGM-84 schematics.

3. For components locator, refer to WP008 00.

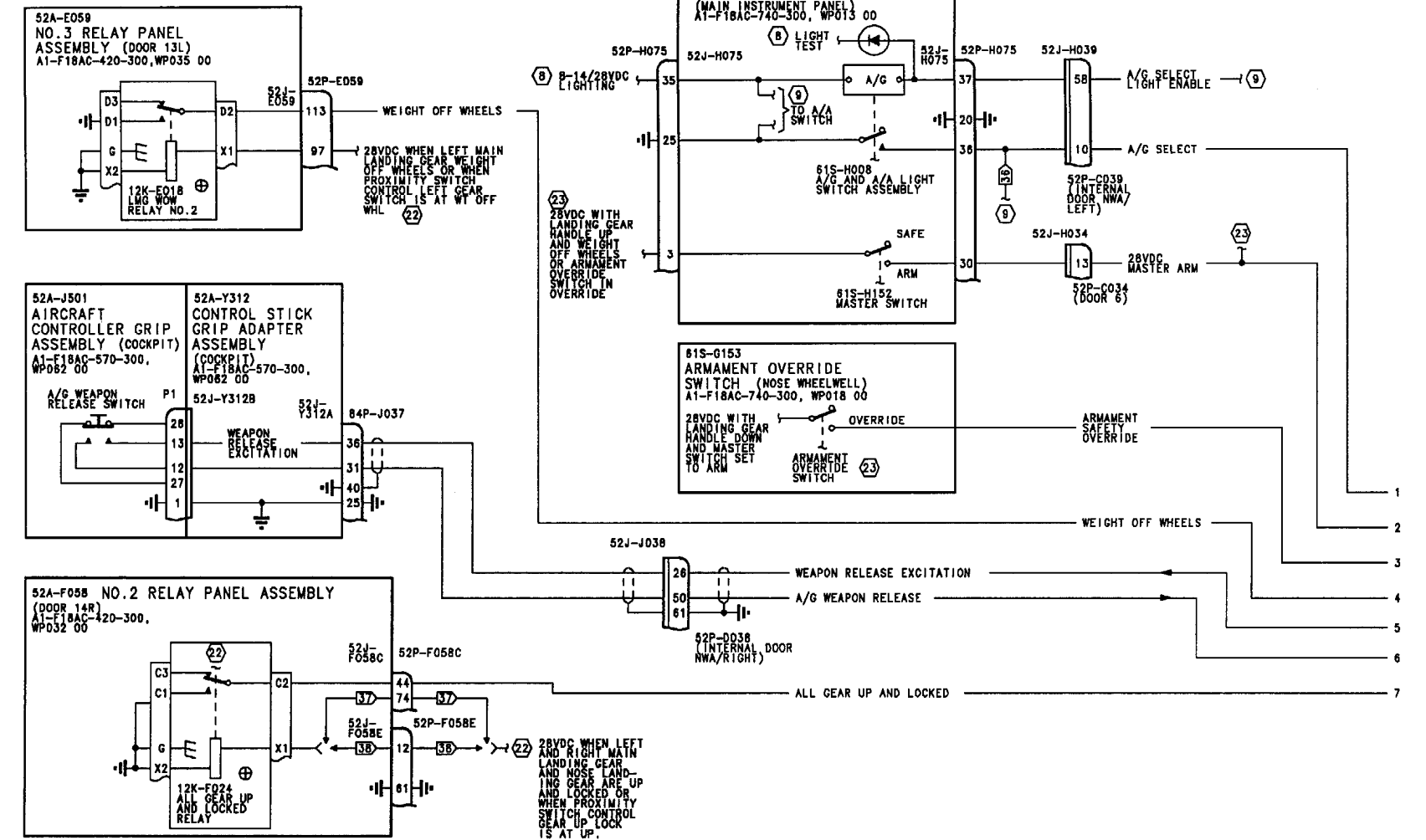


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 1)

Figure 1.

Figure 1.

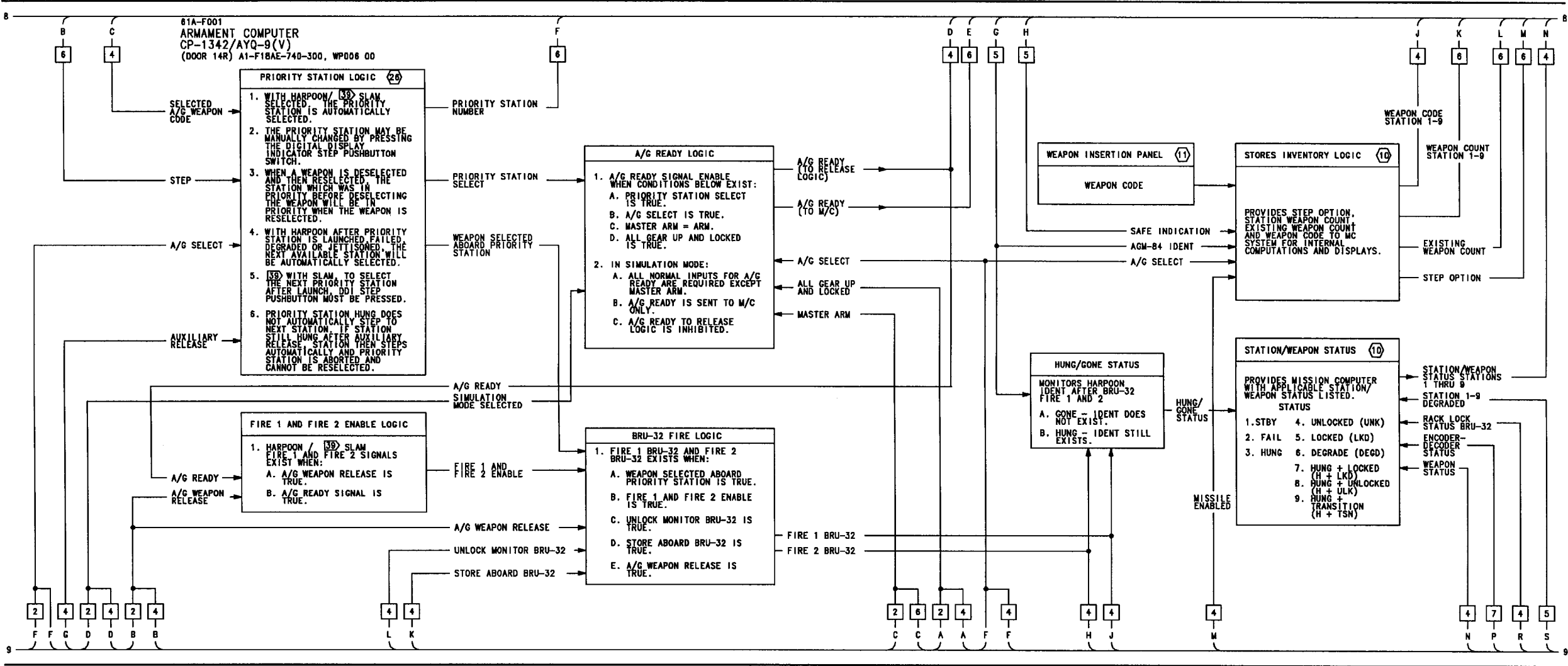


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 3)

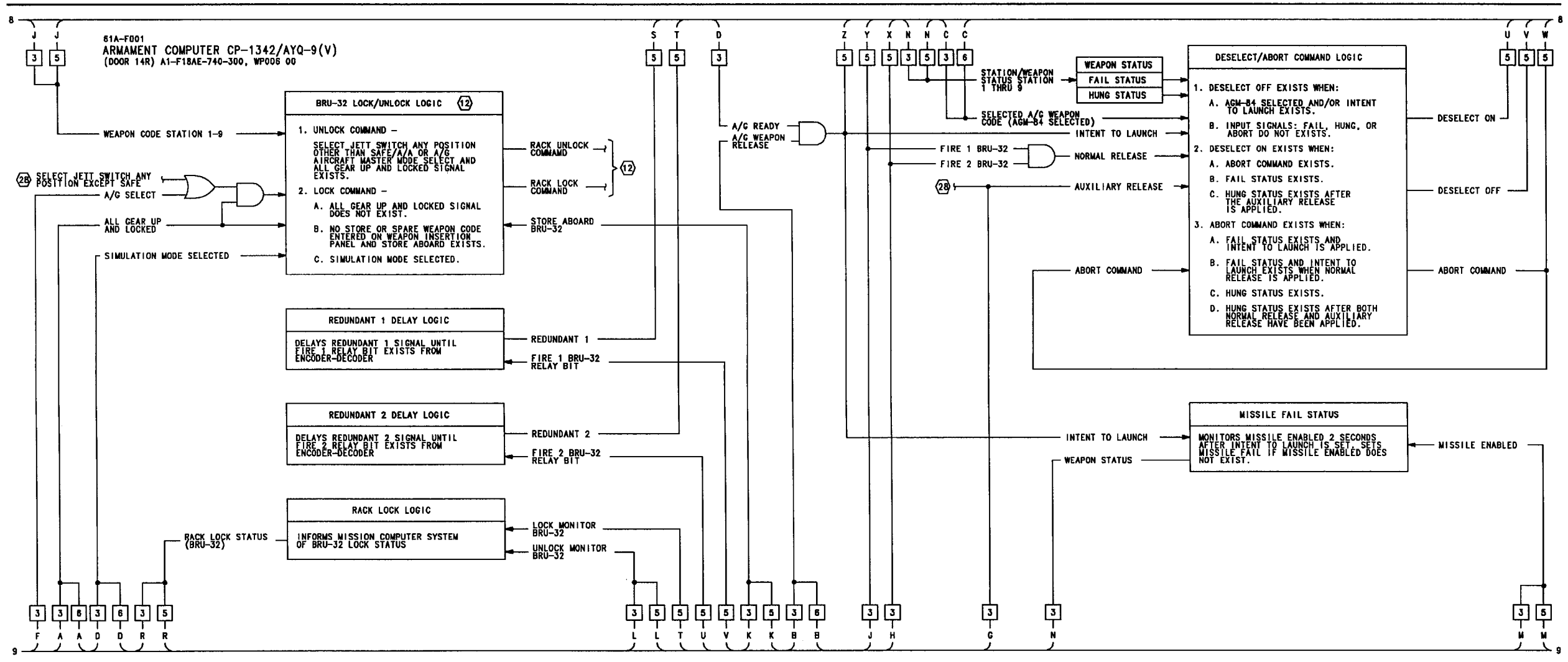


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 4)

Figure 1.

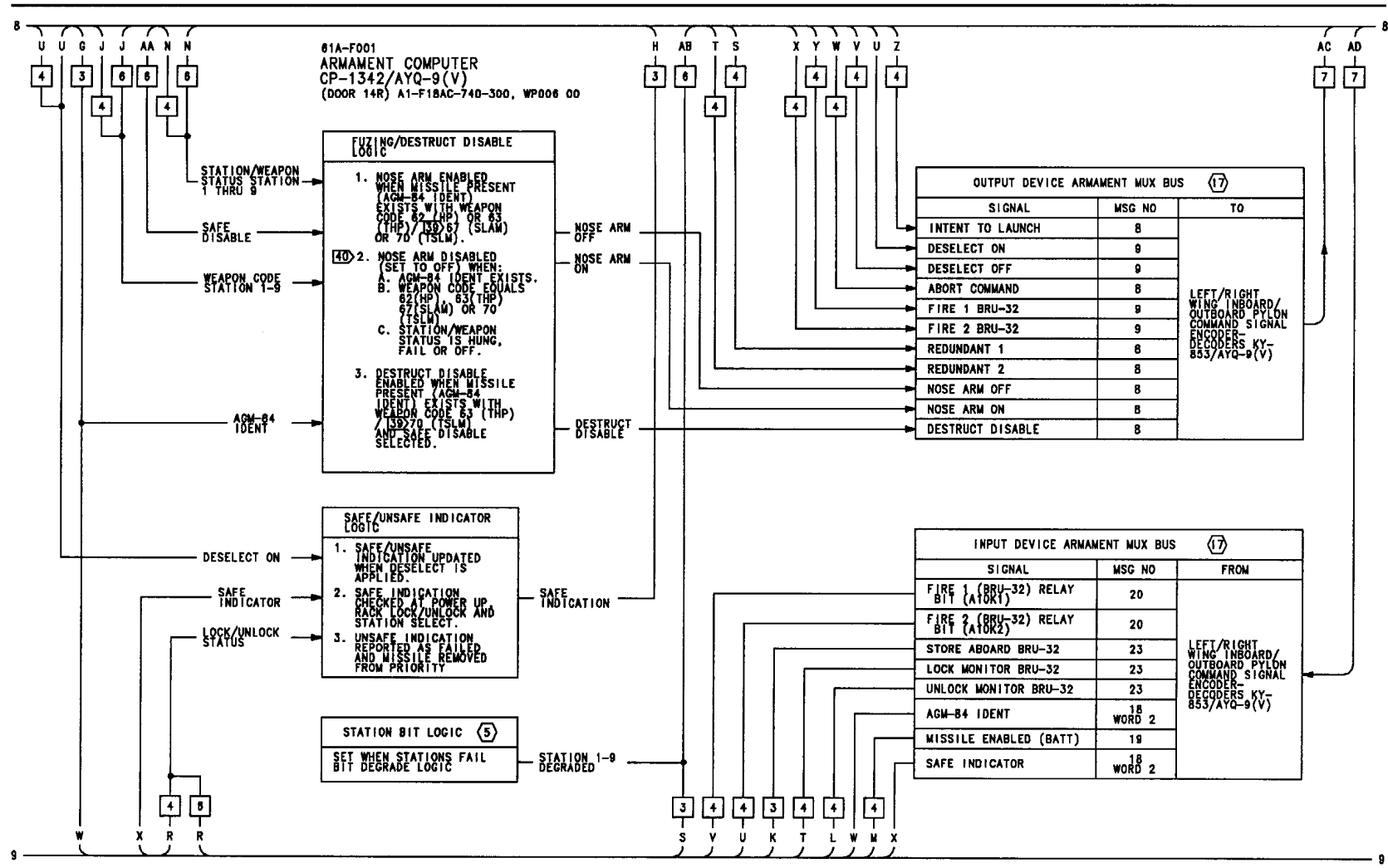


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 5)



Figure 1.

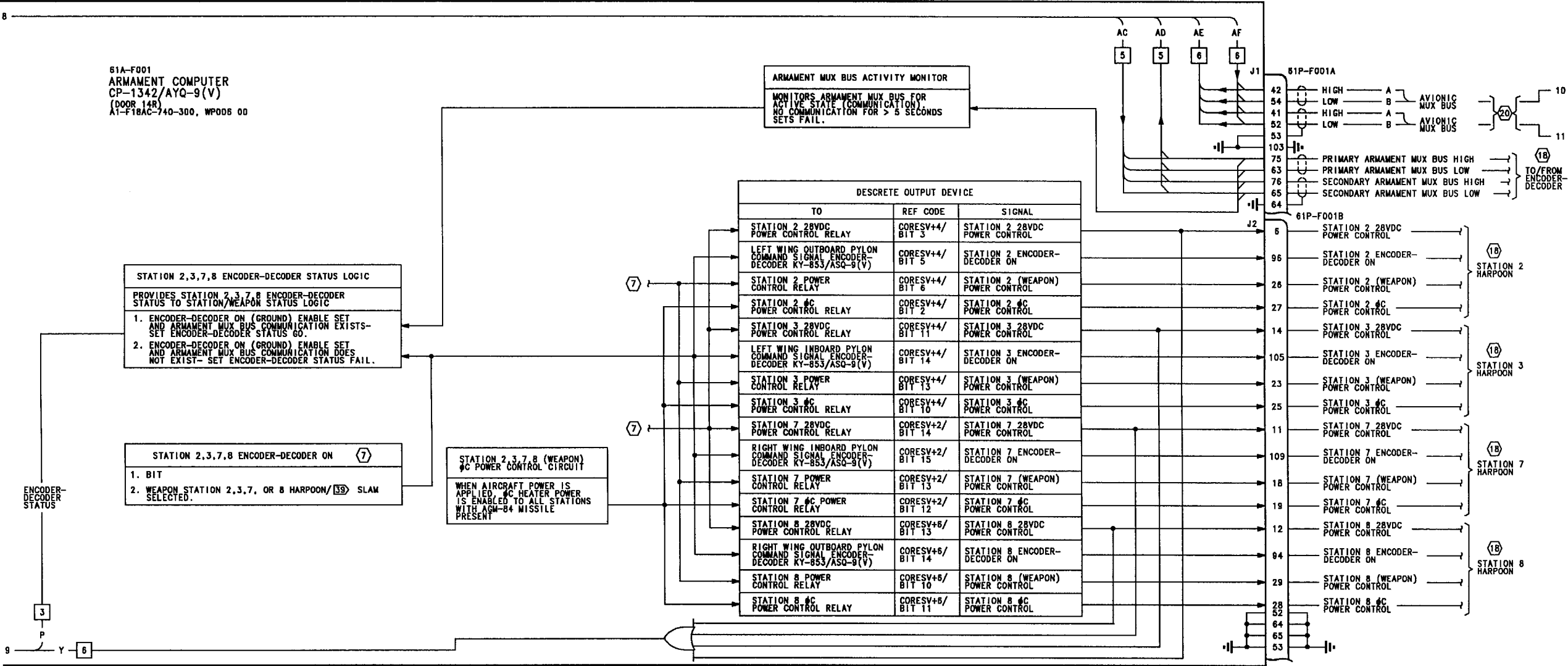


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 7)

Figure 1.

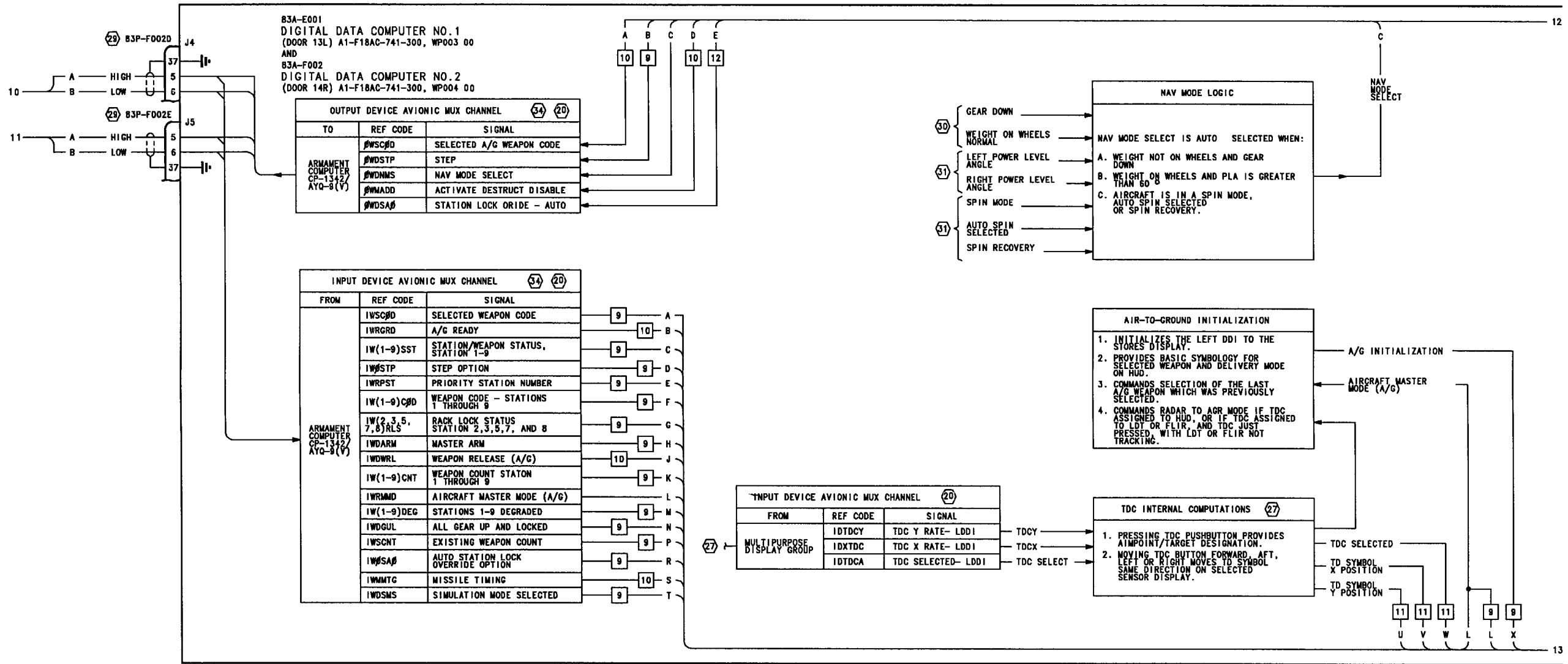


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 8)

54010108
Figure 1.

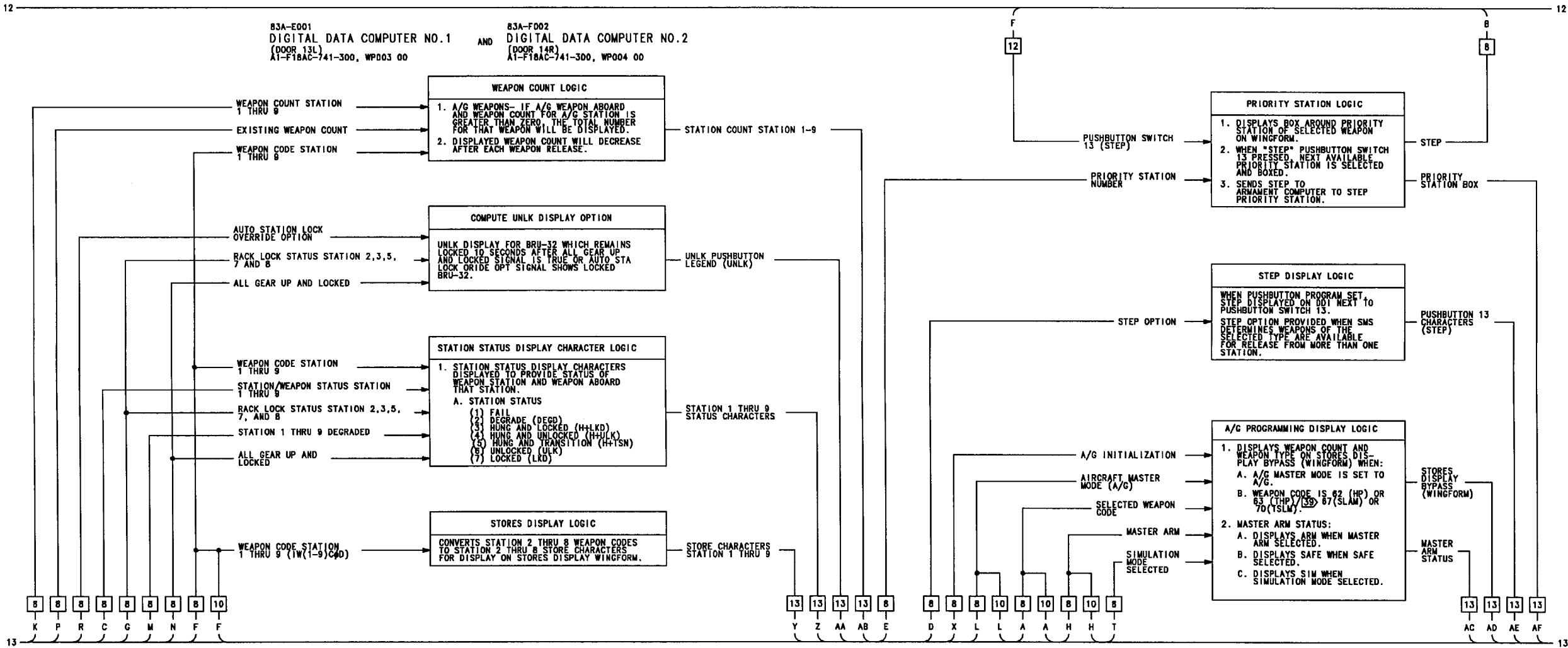


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 9)

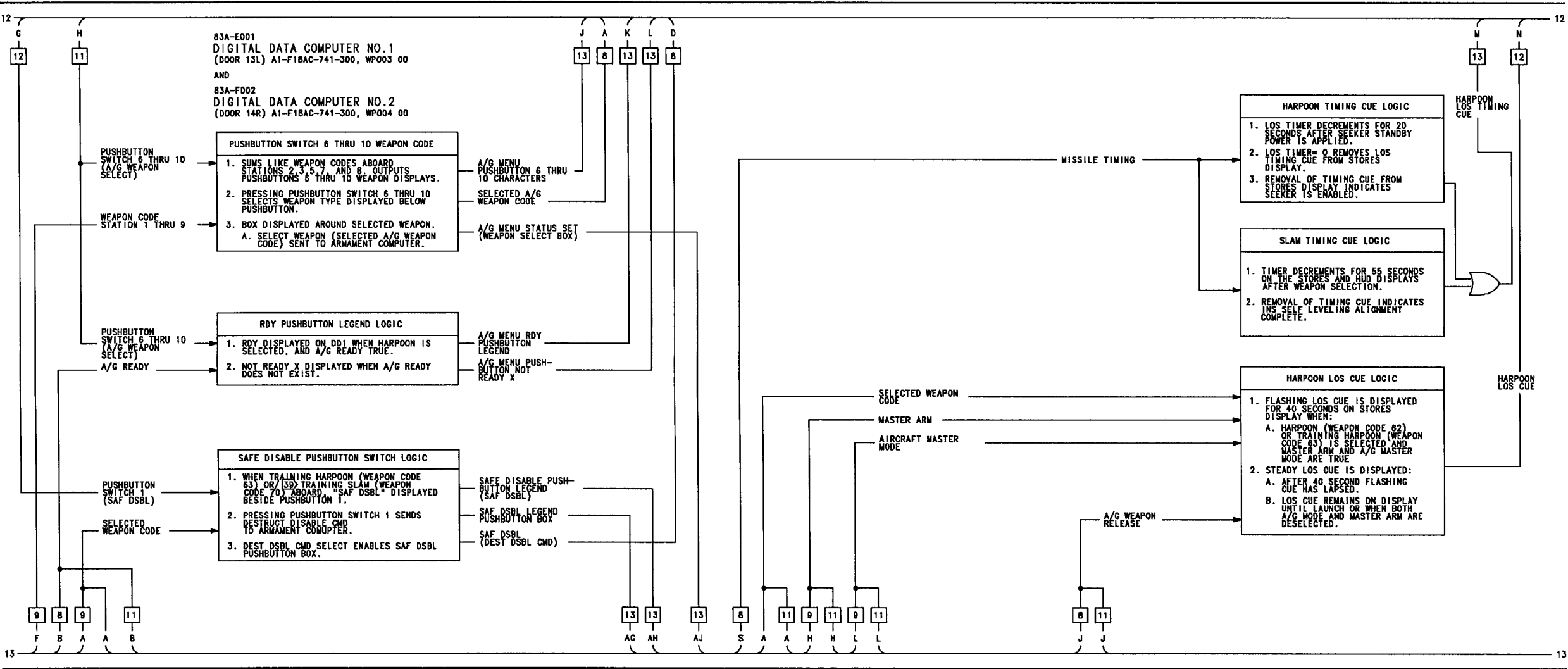


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 10)

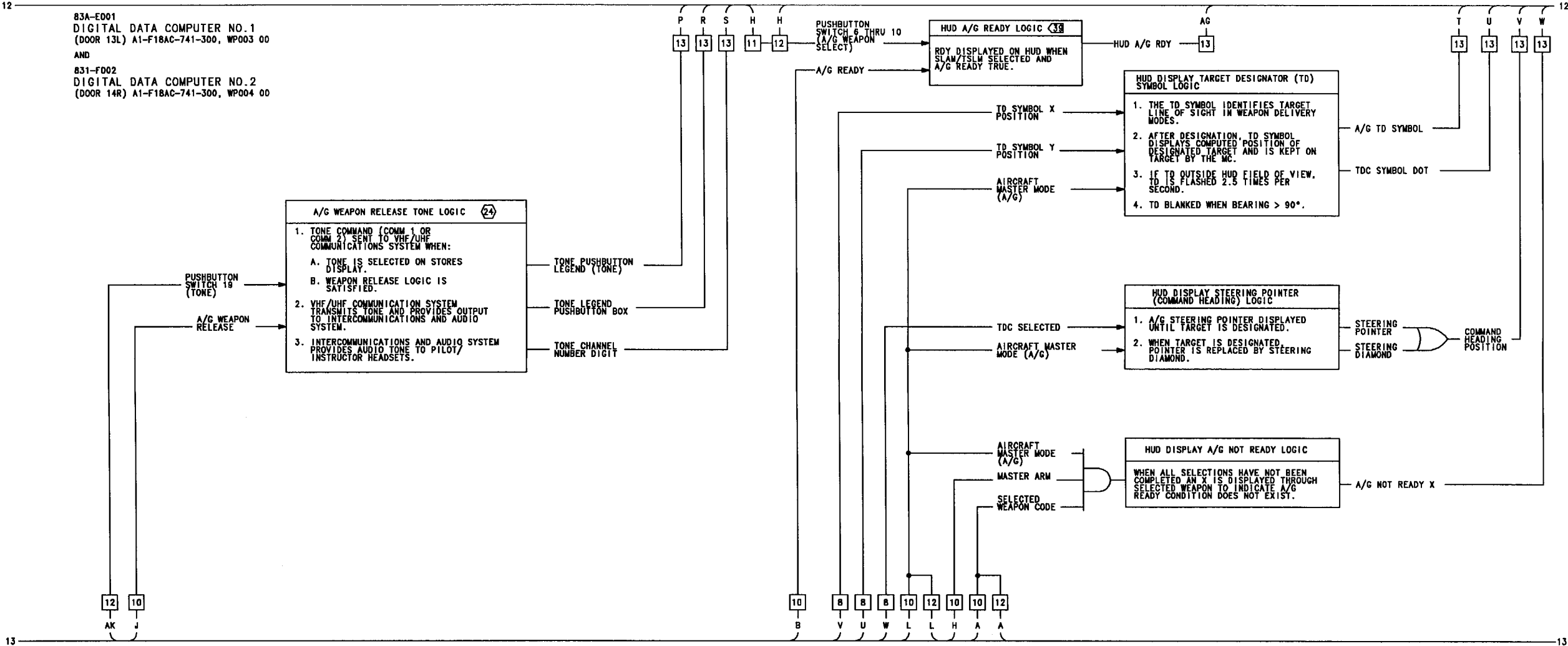


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 11)

Figure 1.

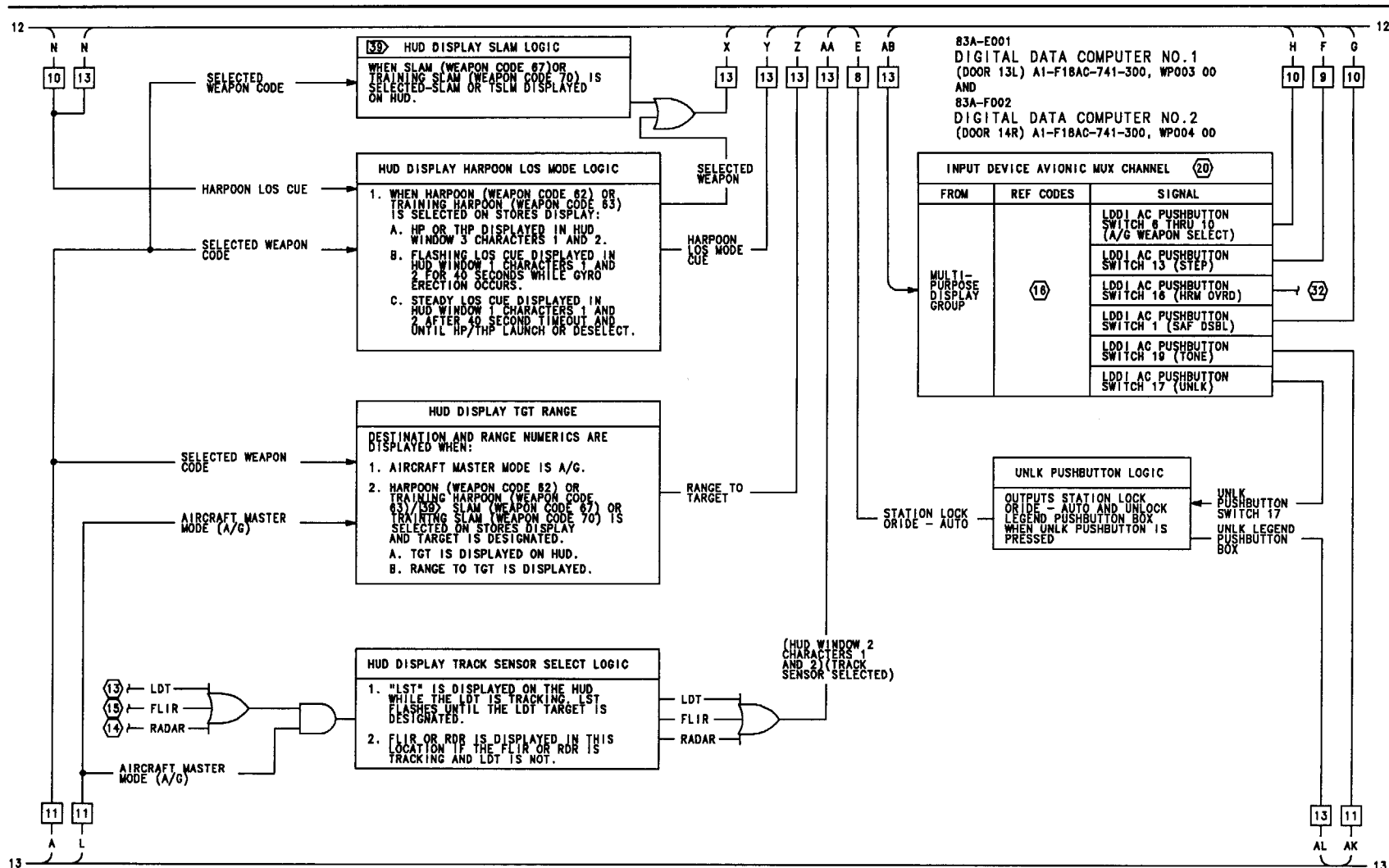


Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 12)

Figure 1.

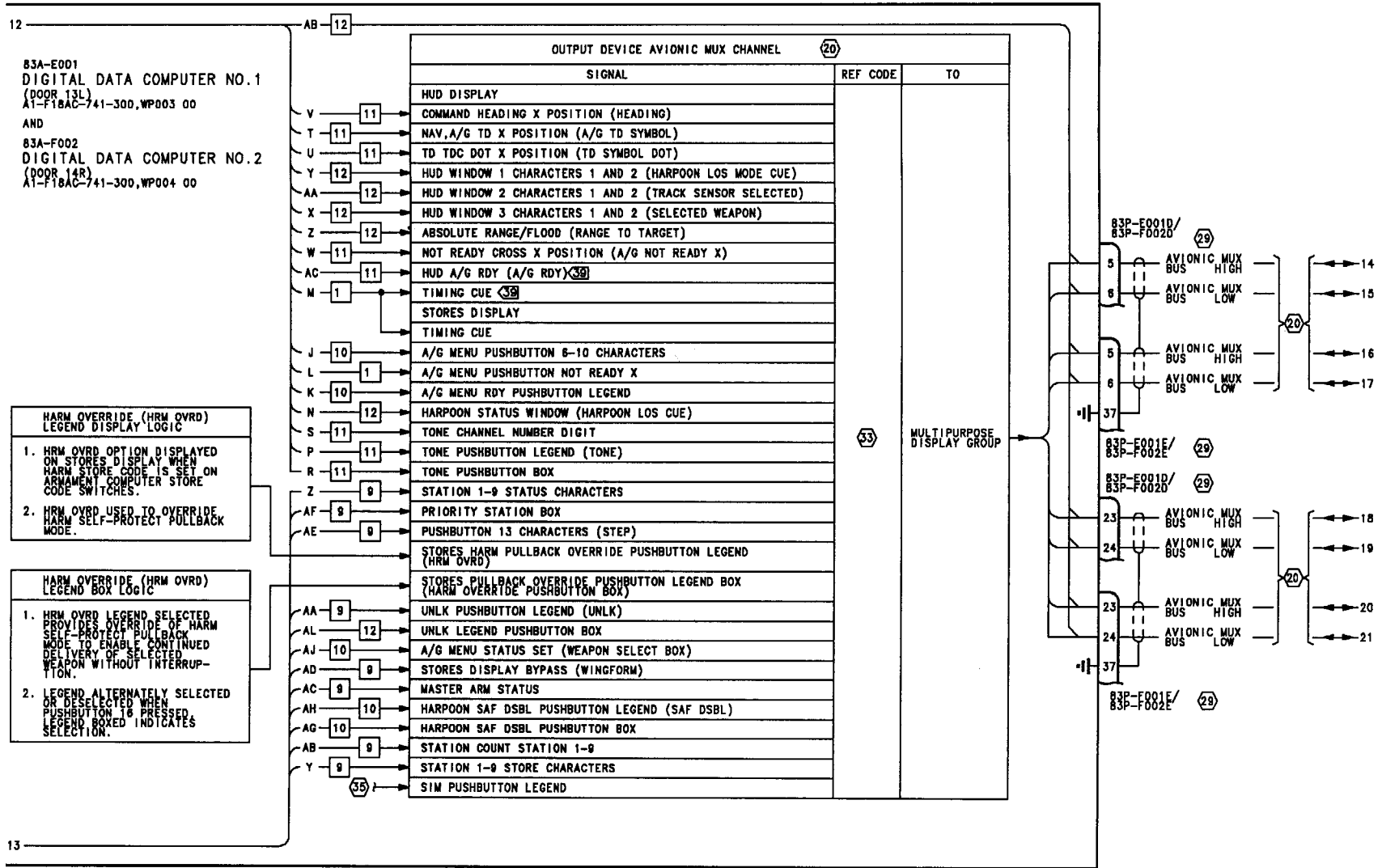


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Figure 1. AGM-84 Avionic Interface Schematic (Sheet 13)

Figure 1.

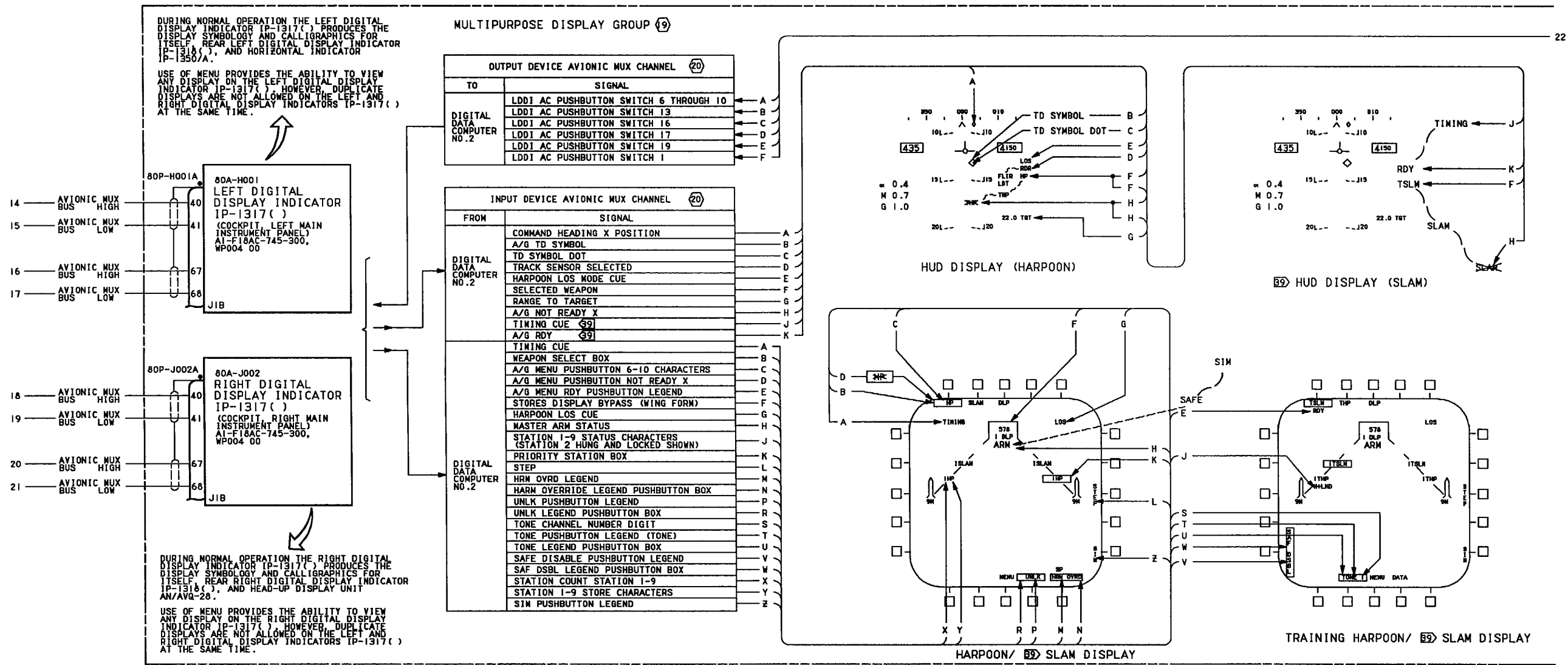


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Figure 1. AGM-84 Avionic Interface Schematic (Sheet 14)

Figure 1.

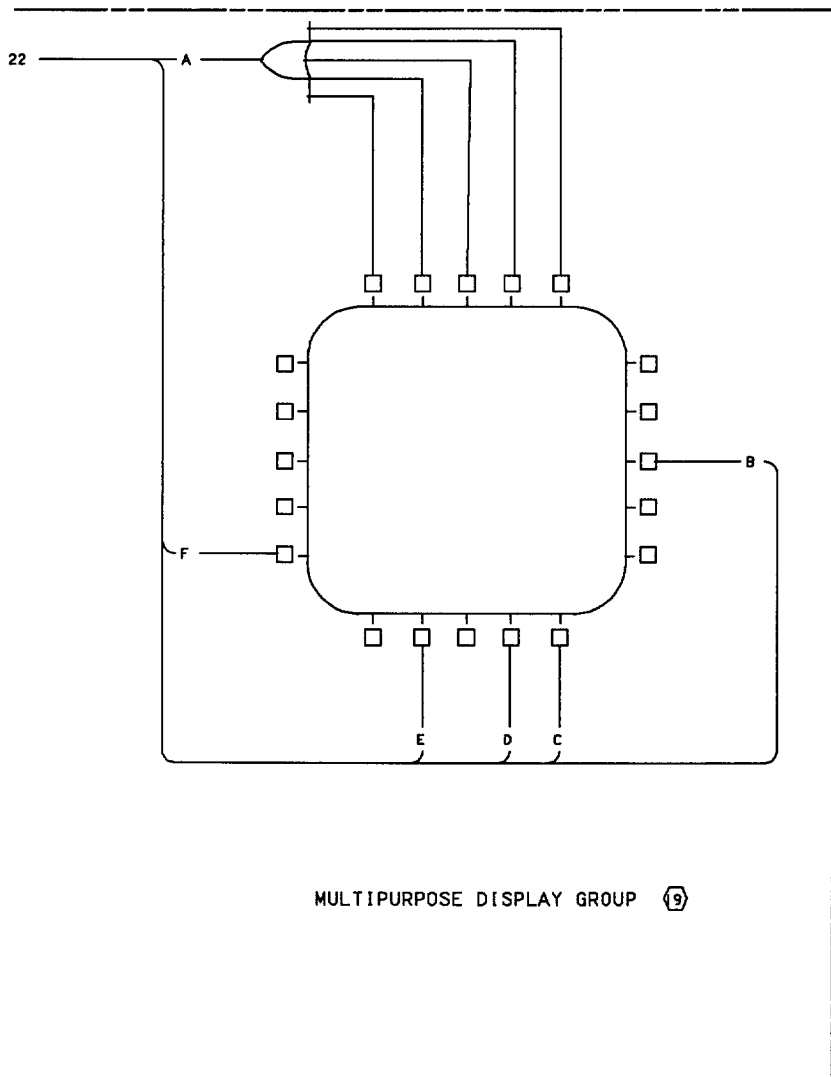


Figure 1. AGM-84 Avionic Interface Schematic (Sheet 15)





































LEGEND					
1.	NONSTANDARD SYMBOLS: SEE WP002 01.				
2.	CONTINUITY TEST: A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000. B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY. C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE. D. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.		LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.		SENSOR CONTROL SWITCH AND THROTTLE DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.
			ACQUISITION AND TRACK FUNCTIONAL SCHEMATIC, A1-F18AC-743-500,		SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.
			AGR/PVU PROCESSING AND DISPLAY SCHEMATIC, A1-F18AC-741-500, WP032 00.		CONNECTORS AND PINS DUPLICATED TO SIMPLIFY SIGNAL FLOW.
			INFRARED OPTICS POSITIONING SCHEMATIC, A1-F18AC-744-500, WP009 00.		CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 00.
			IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION. TROUBLESHOOT USING DISPLAYS TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).		APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
			ARMAMENT MUX BUS DATA, WP010 00.		AGM-88 HARM AVIONIC INTERFACE SCHEMATIC, WP056 00.
			APPLICABLE WEAPON STATION AGM-84 SCHEMATIC. WEAPON STATION 2, 3, 7, 8 AGM-84 SCHEMATIC, WP053 00		DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST; A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP023 00.		THE MULTIPURPOSE DISPLAY GROUP IS MADE UP OF THE LEFT DIGITAL DISPLAY INDICATOR IP-1317(), RIGHT DIGITAL DISPLAY INDICATOR IP-1317(), HEAD UP DISPLAY UNIT AN/AVQ-28, HORIZONTAL INDICATOR IP-1350/A AND ON F/A-18B THE REAR LEFT DIGITAL DISPLAY INDICATOR IP-1318(), RIGHT DIGITAL DISPLAY INDICATOR IP-1318(), AND REAR CENTER DIGITAL DISPLAY INDICATOR IP-1318(). FOR MULTIPURPOSE DISPLAY GROUP, REFER TO A1-F18AC-745-500.		FOR LOGIC DIAGRAMS RELATING TO REF CODES, REFER TO A1-F18AC-FIM-100. FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.				
	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC. WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00 WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00 WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00 WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00		SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18-AC-741-500, WP001 00.		SIMULATION MODE SELECT SCHEMATIC, WP022 00.
			DELETED		F/A-18B.
	COCKPIT WARNING/CAUTION/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500. WP006 00.		LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130-500, WP004 00.		161353 THRU 161987 BEFORE F/A-18 AFC 48.
	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.		MASTER ARM SCHEMATIC, WP017 00.		162394 AND UP, ALSO 161353 THRU 161987 AFTER F/A-18 AFC 48.
	STORES INVENTORY SCHEMATIC, WP015 00.		AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.		WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 89A AND UP (A1-F18AC-SCM-000).
	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORES CODES AND WEAPON DISPLAYS, WP009 00.		WEAPON SELECT SCHEMATIC, WP016 00.		WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 92A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 92A AND UP (A1-F18AC-SCM-000).
			PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.		

Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 16)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-84 AVIONICS INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. **INTRODUCTION.**
- schematic supplements weapon station 2, 3, 7 and
8 AGM-84 schematics.
2. The work package shows the aircraft system
functions related to the AGM-84 Harpoon. The
3. Component locations are shown WP008 00.

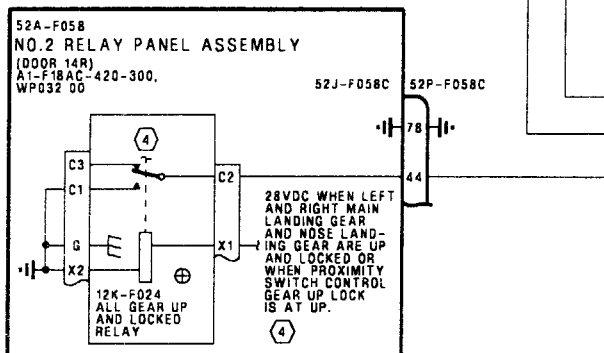


Figure 1.

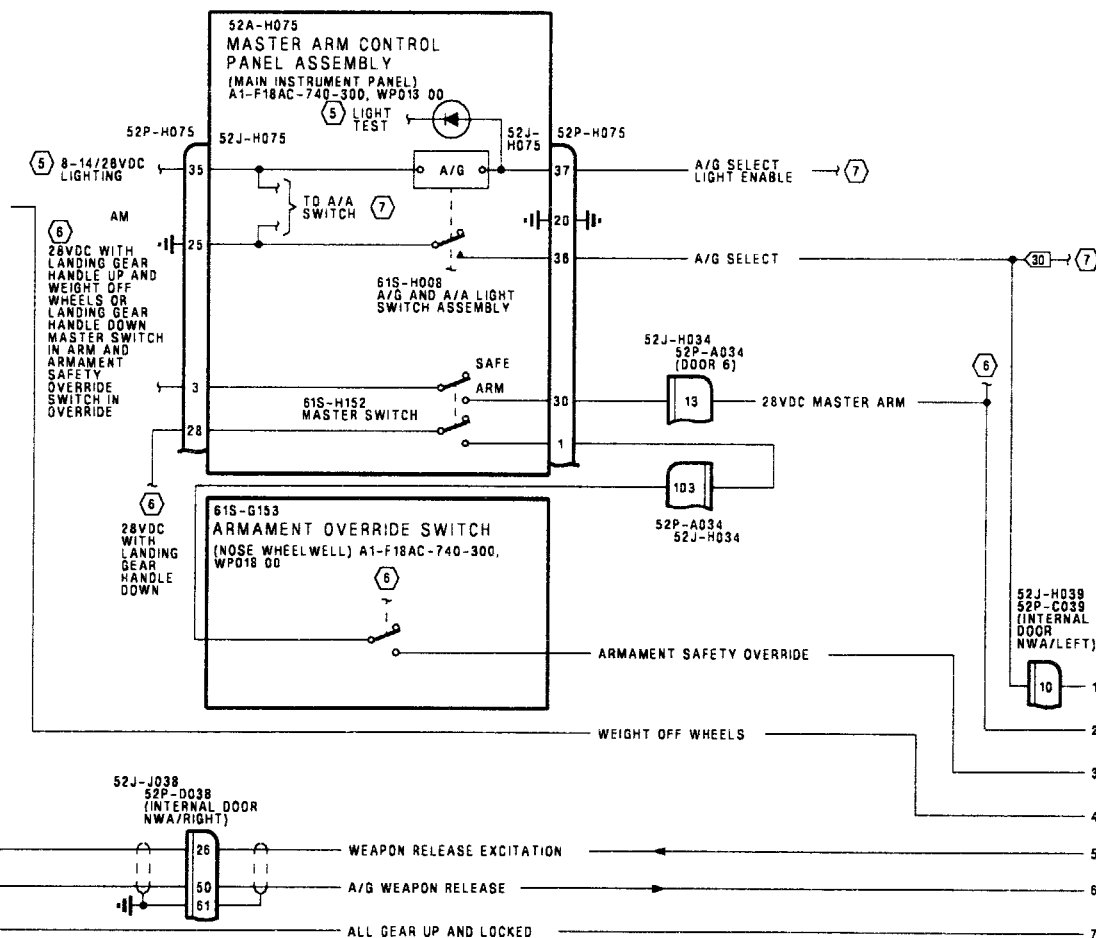


Figure 1. AGM-65 Harpoon Avionic Interface Schematic (Sheet 1)

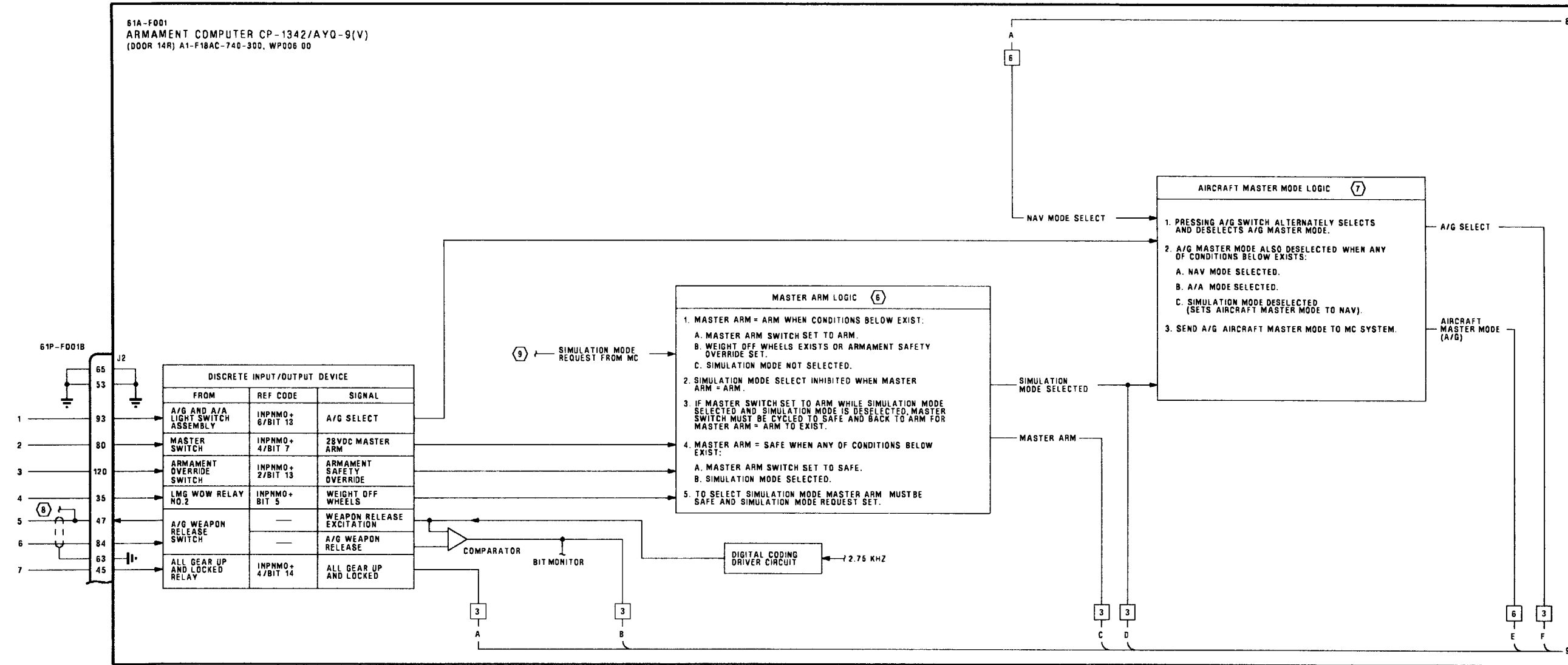


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 2)

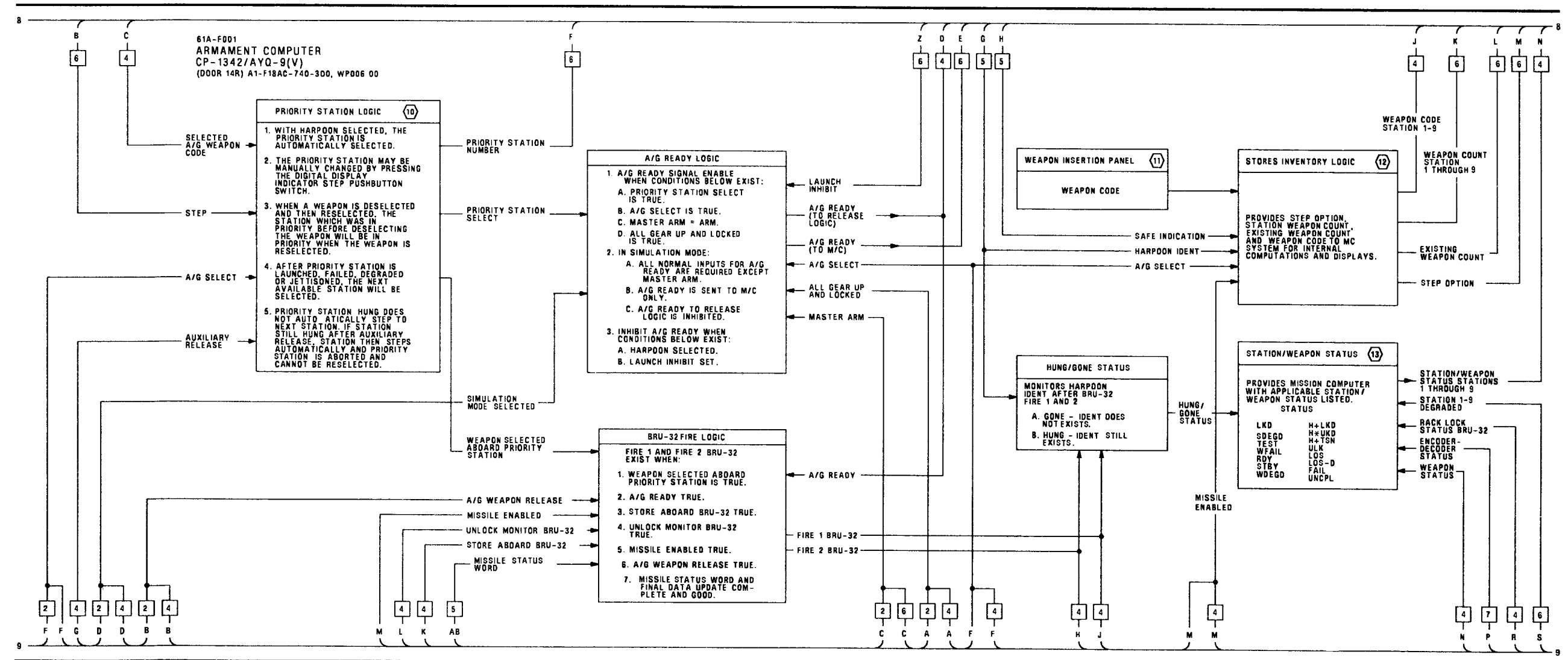


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 3)

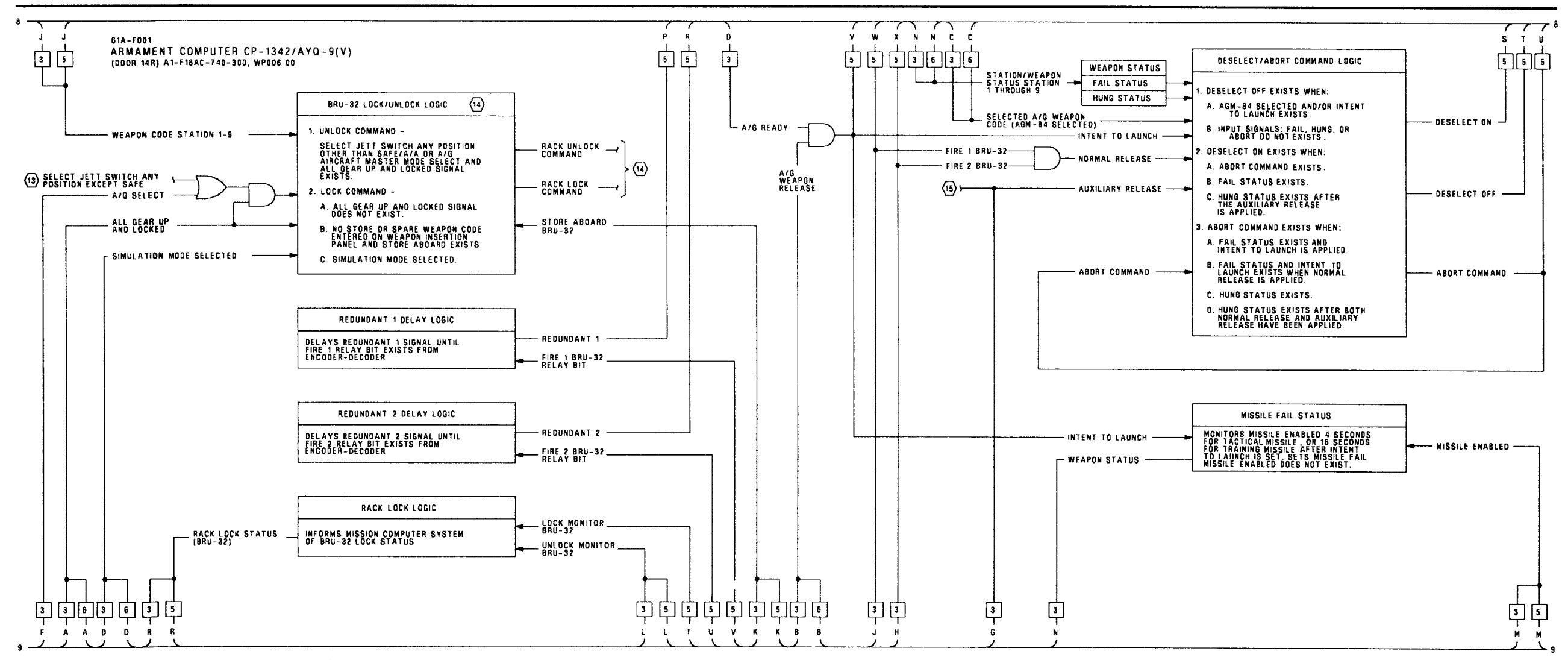


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 4)

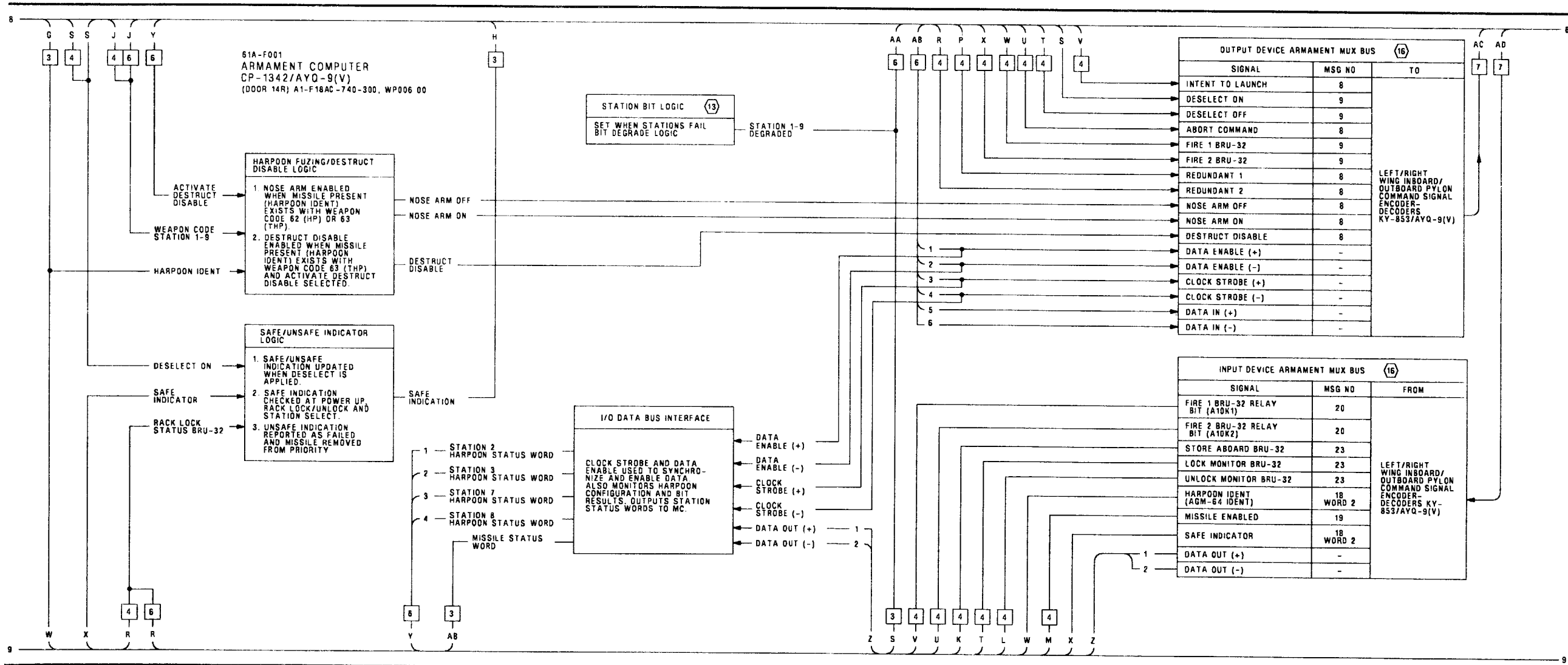


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 5)

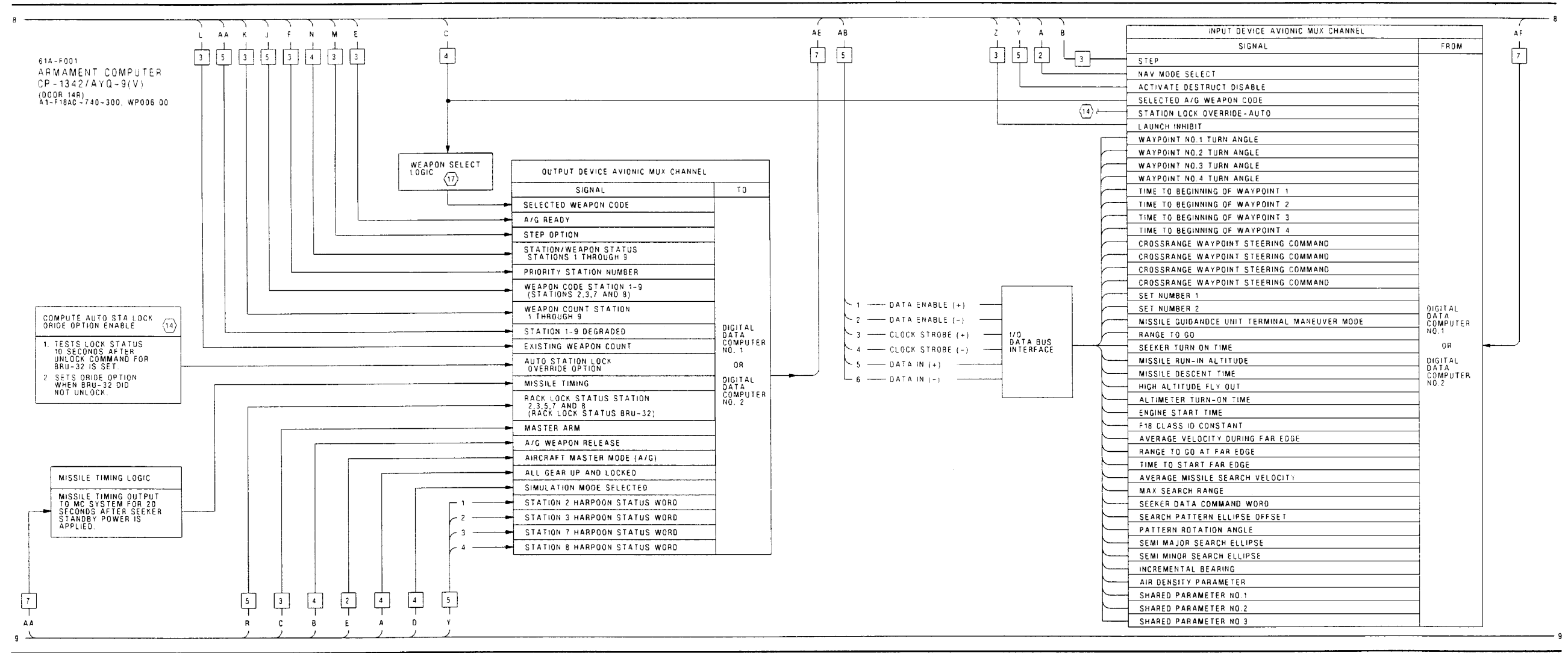


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 6)

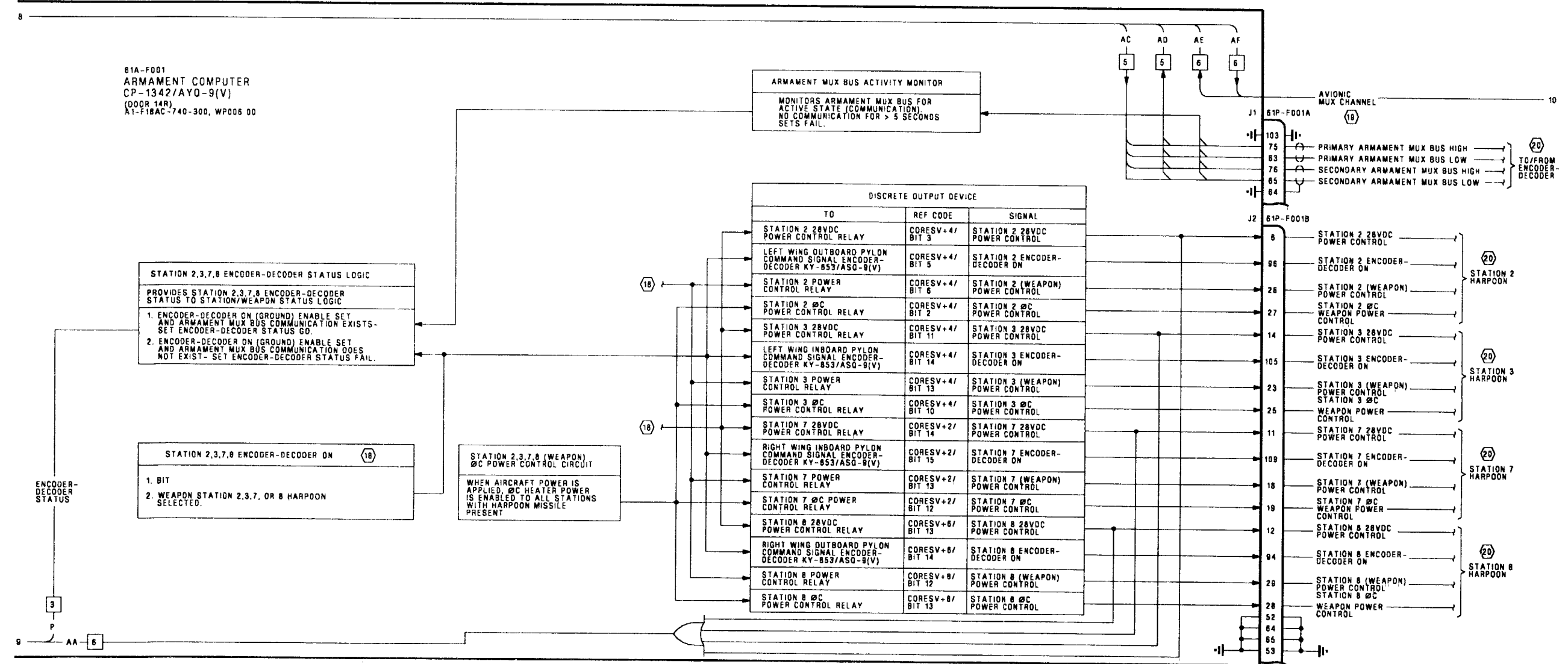


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 7)

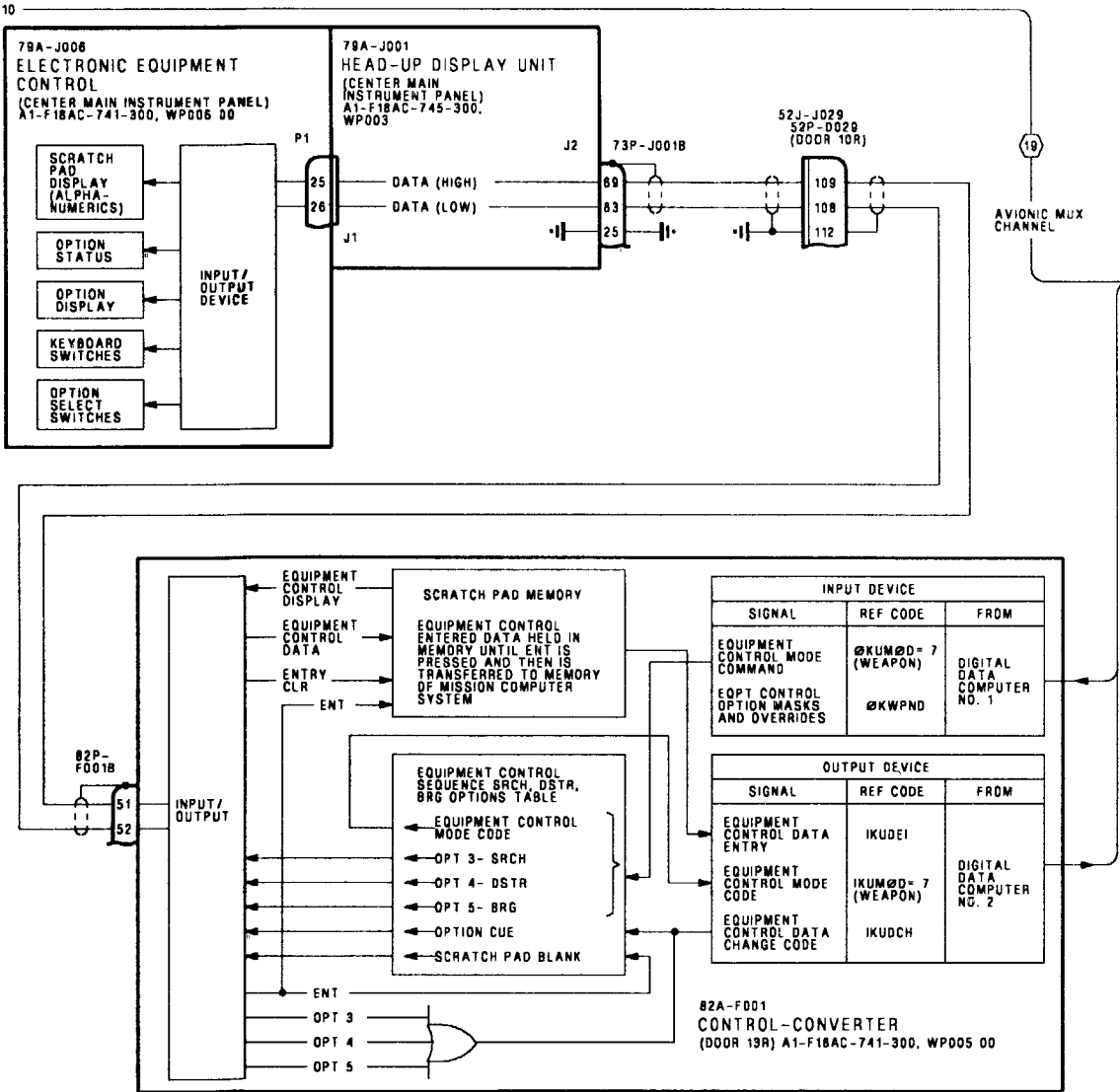


Figure 1.

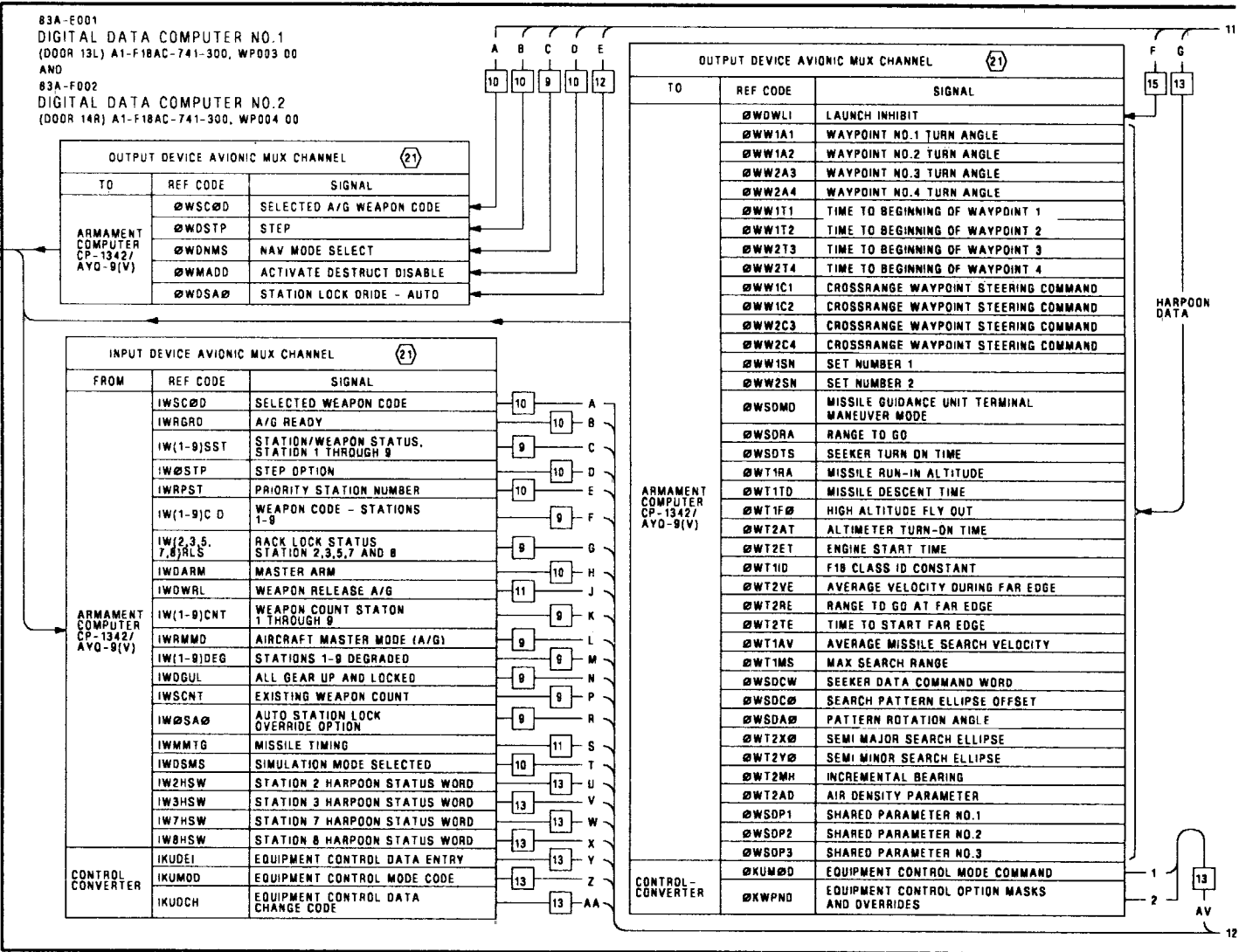


Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 8)

Figure 1.

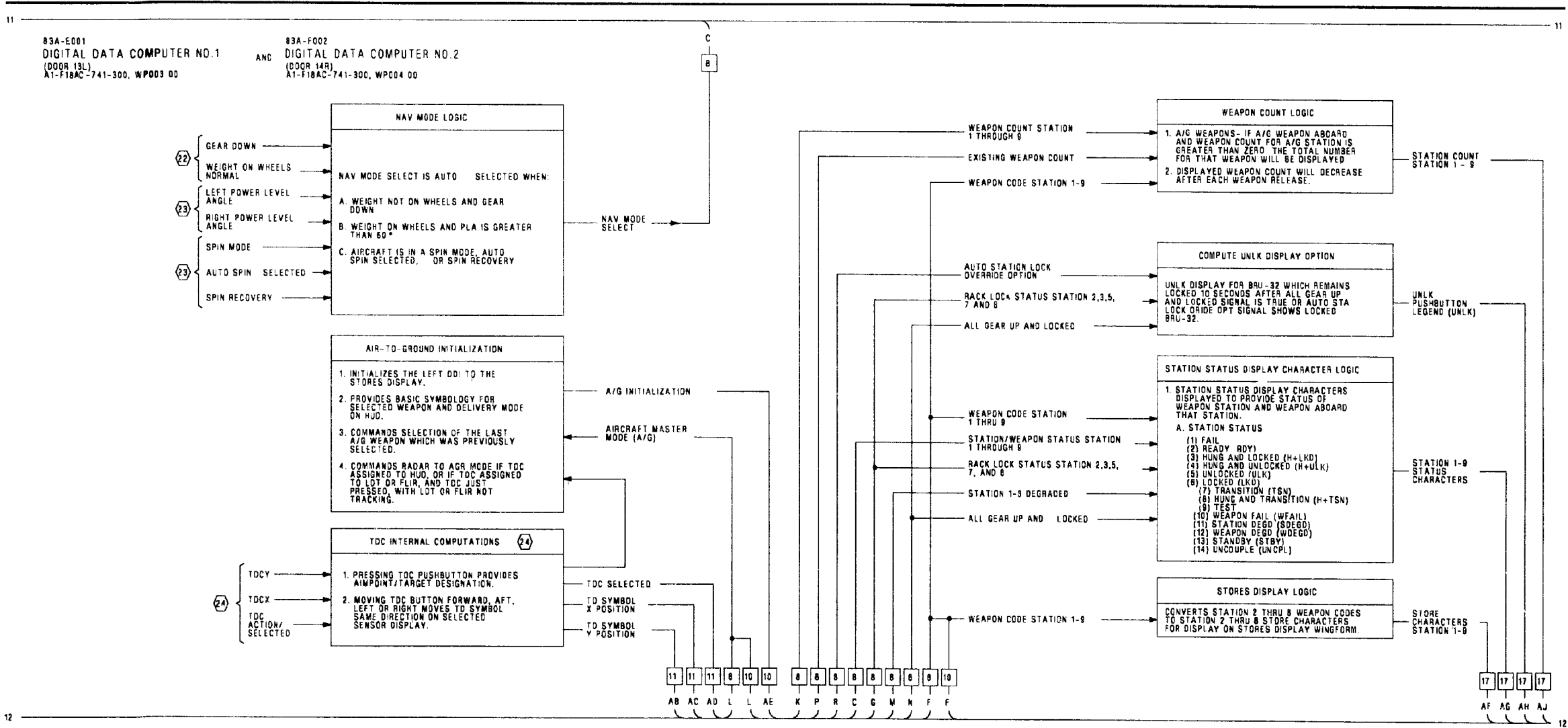


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 9)

Figure 1.
54020109

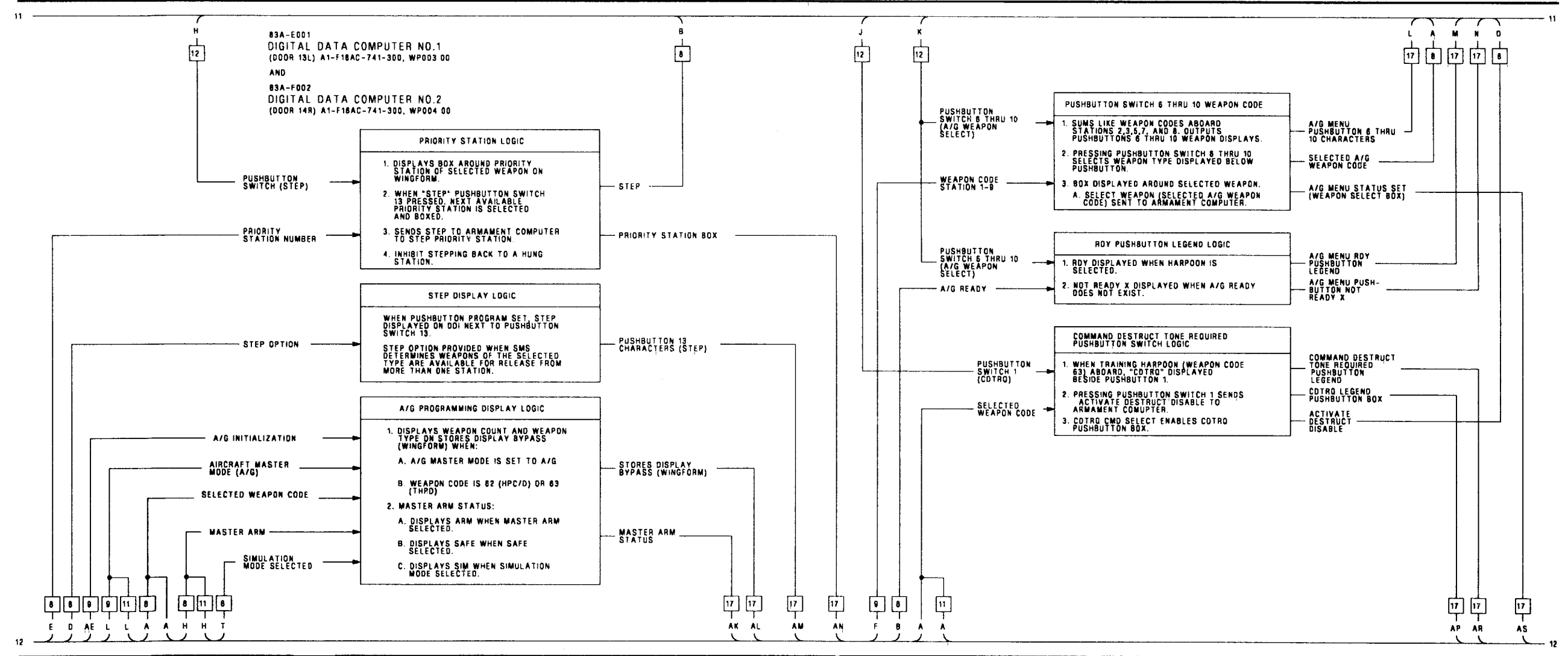
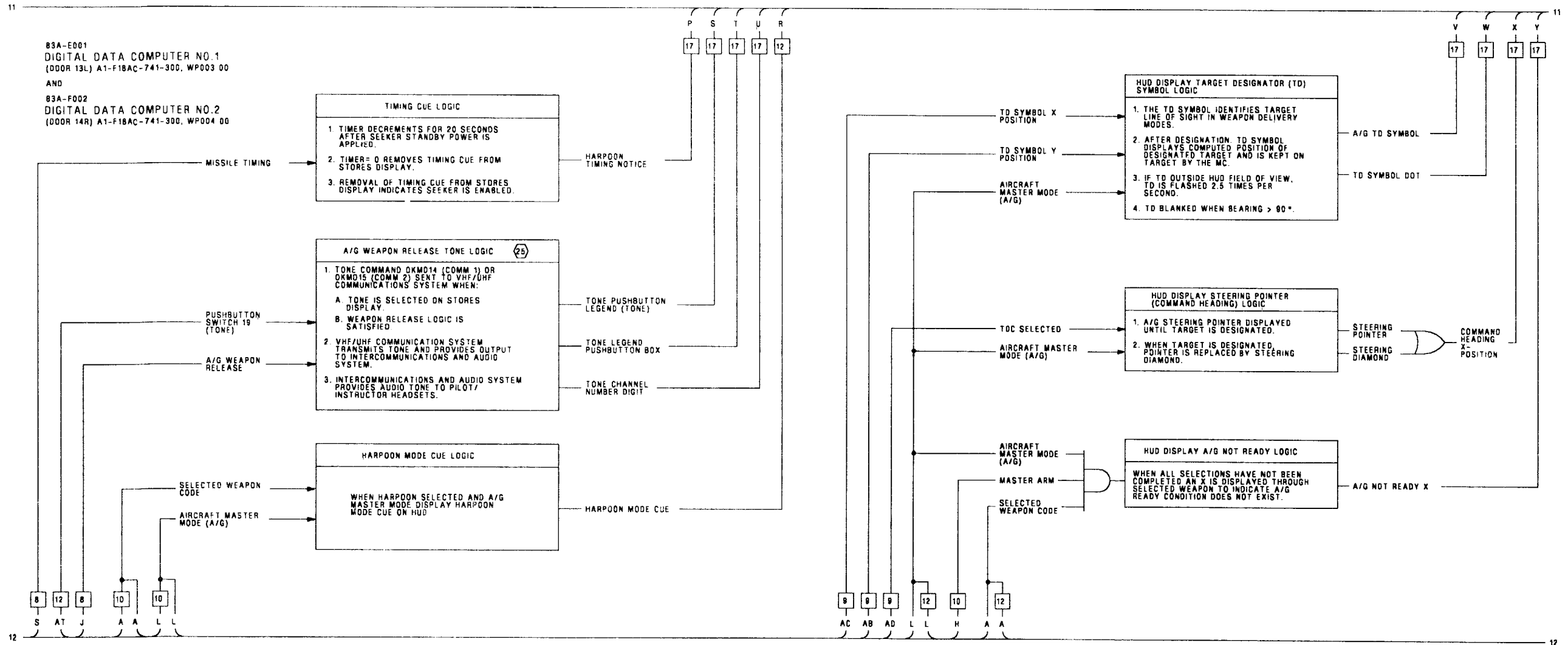


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 10)



54020111

Figure 1.

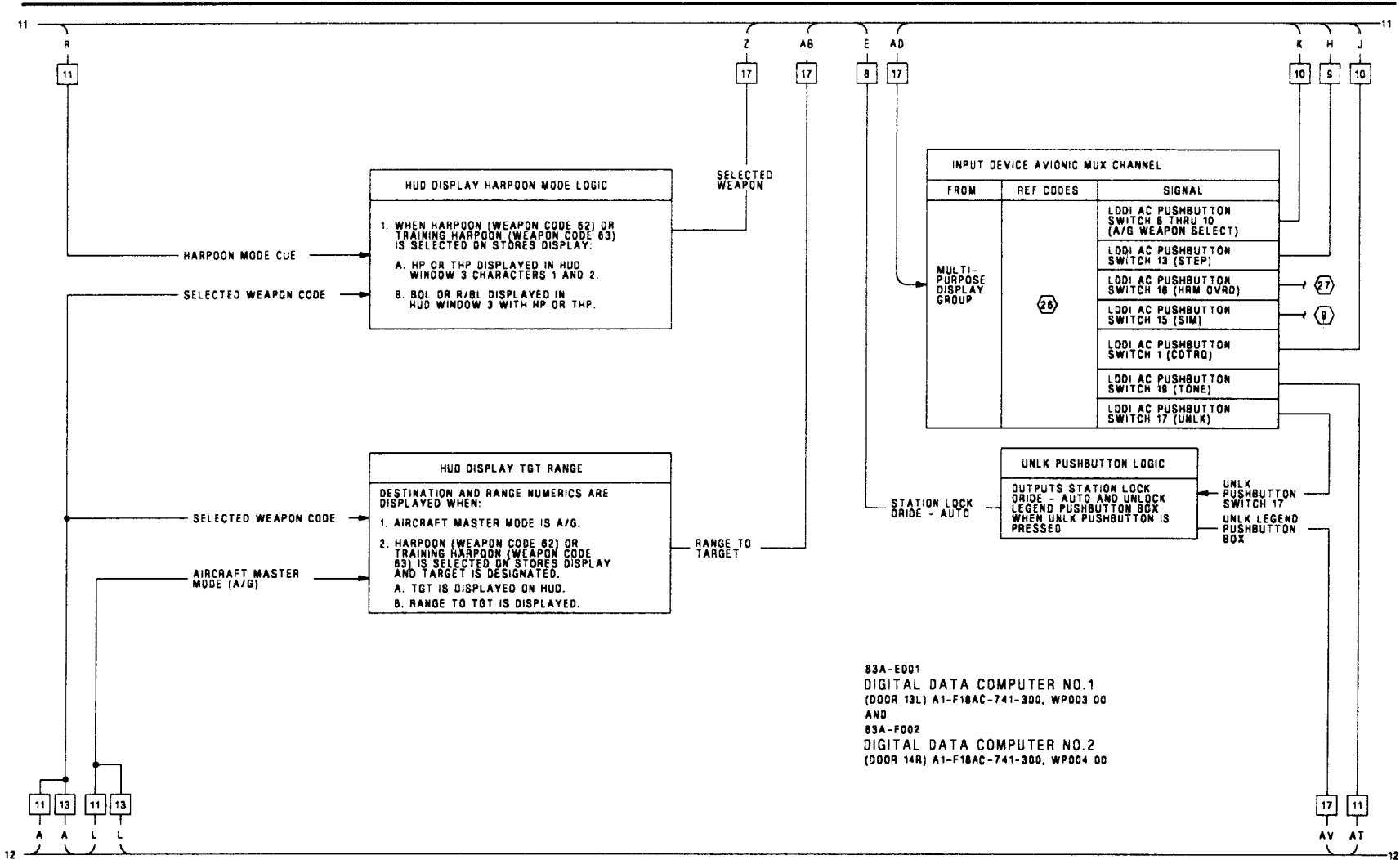


Figure 1.

Figure 1. AGM-65 Harpoon Avionic Interface Schematic (Sheet 12)

54020112
Figure 1.



Figure 1. AGM-65 Harpoon Avionic Interface Schematic (Sheet 13)

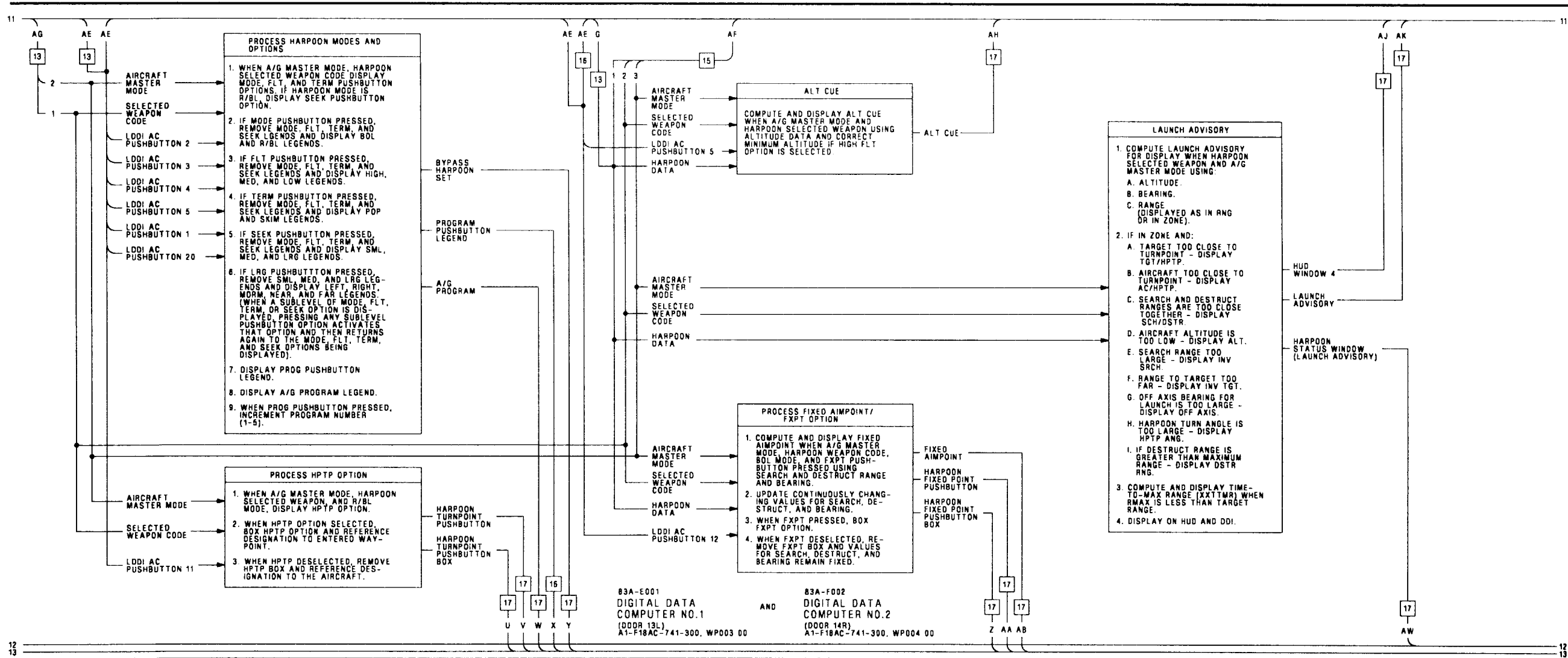


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 14)

Figure 1.

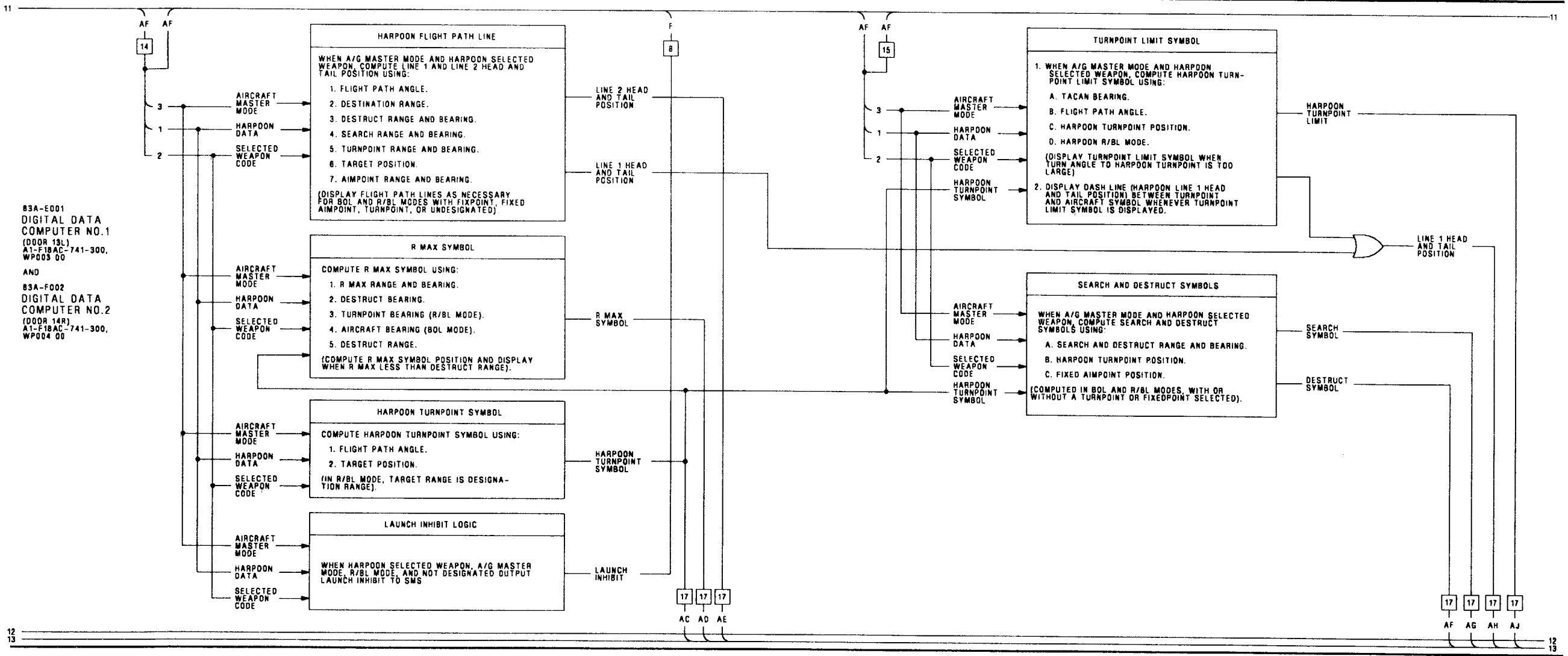


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 15)

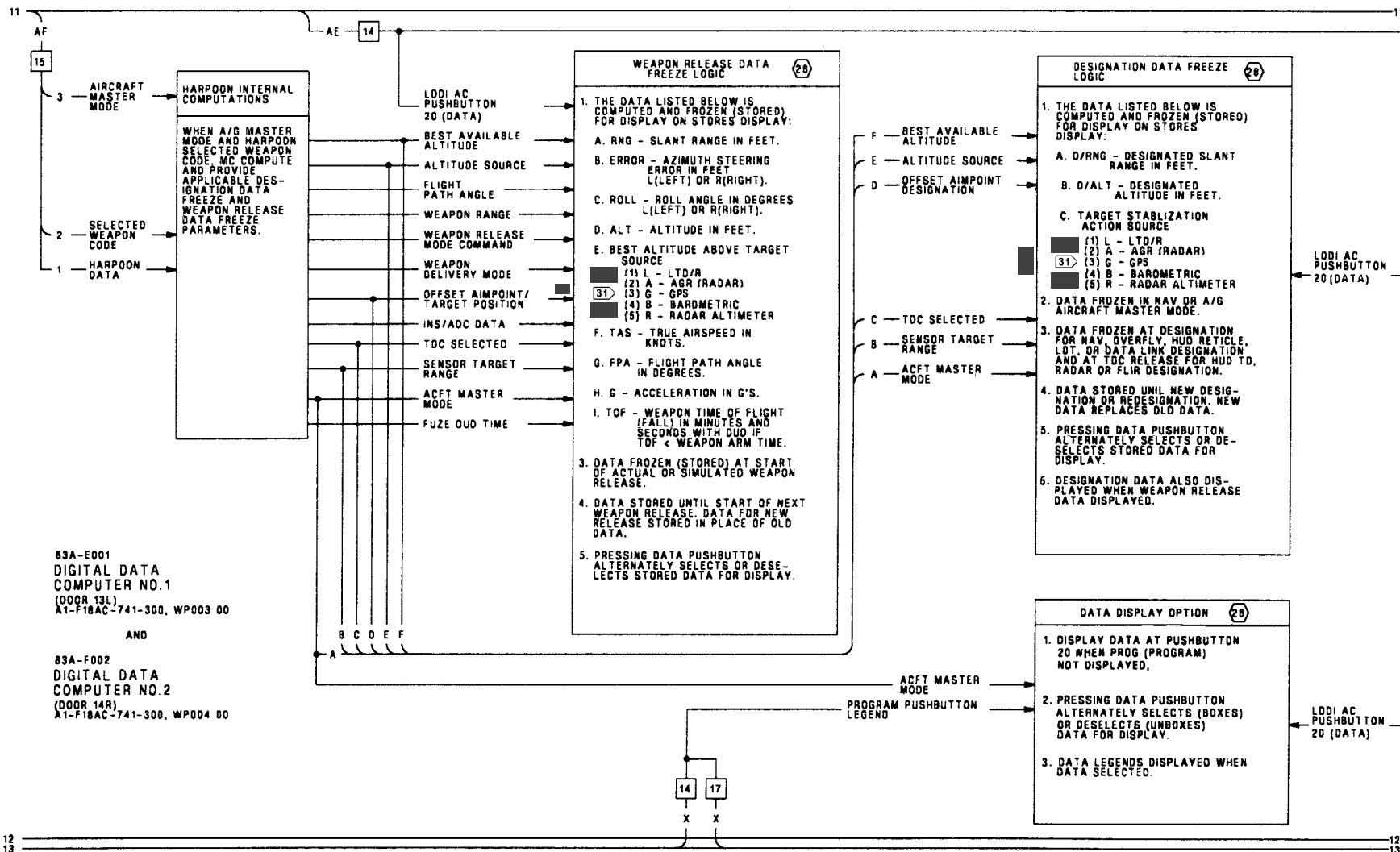


Figure 1.

Figure 1. AGM-65 Harpoon Avionic Interface Schematic (Sheet 16)

Figure 1.

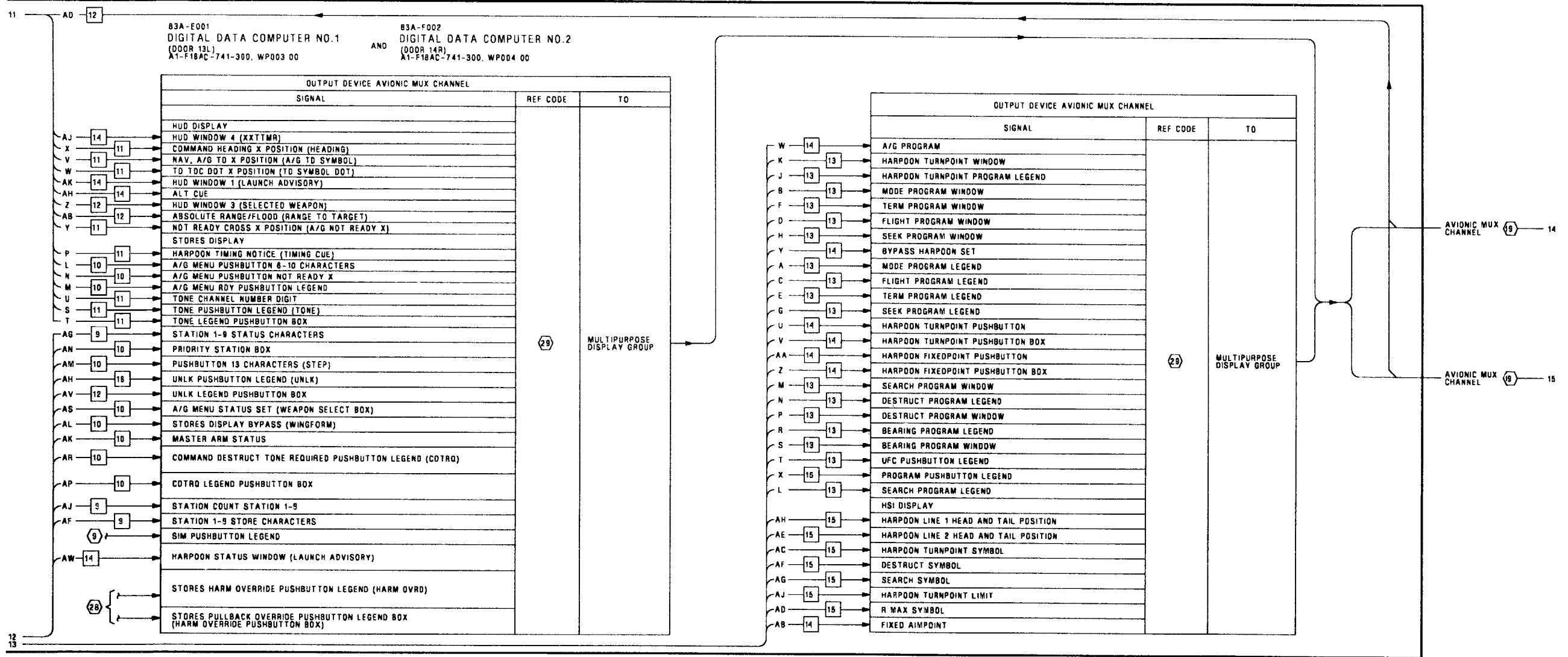


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 17)



Figure 1.

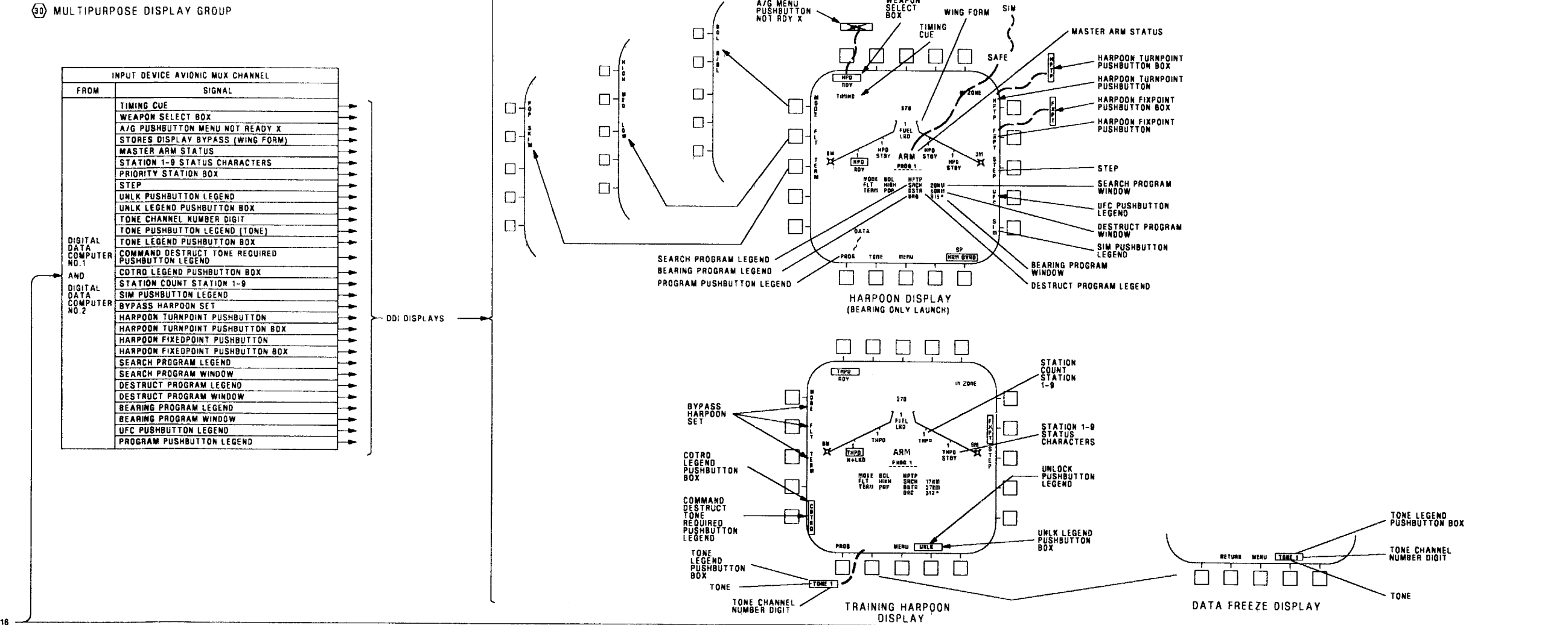


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 19)

Figure 1.

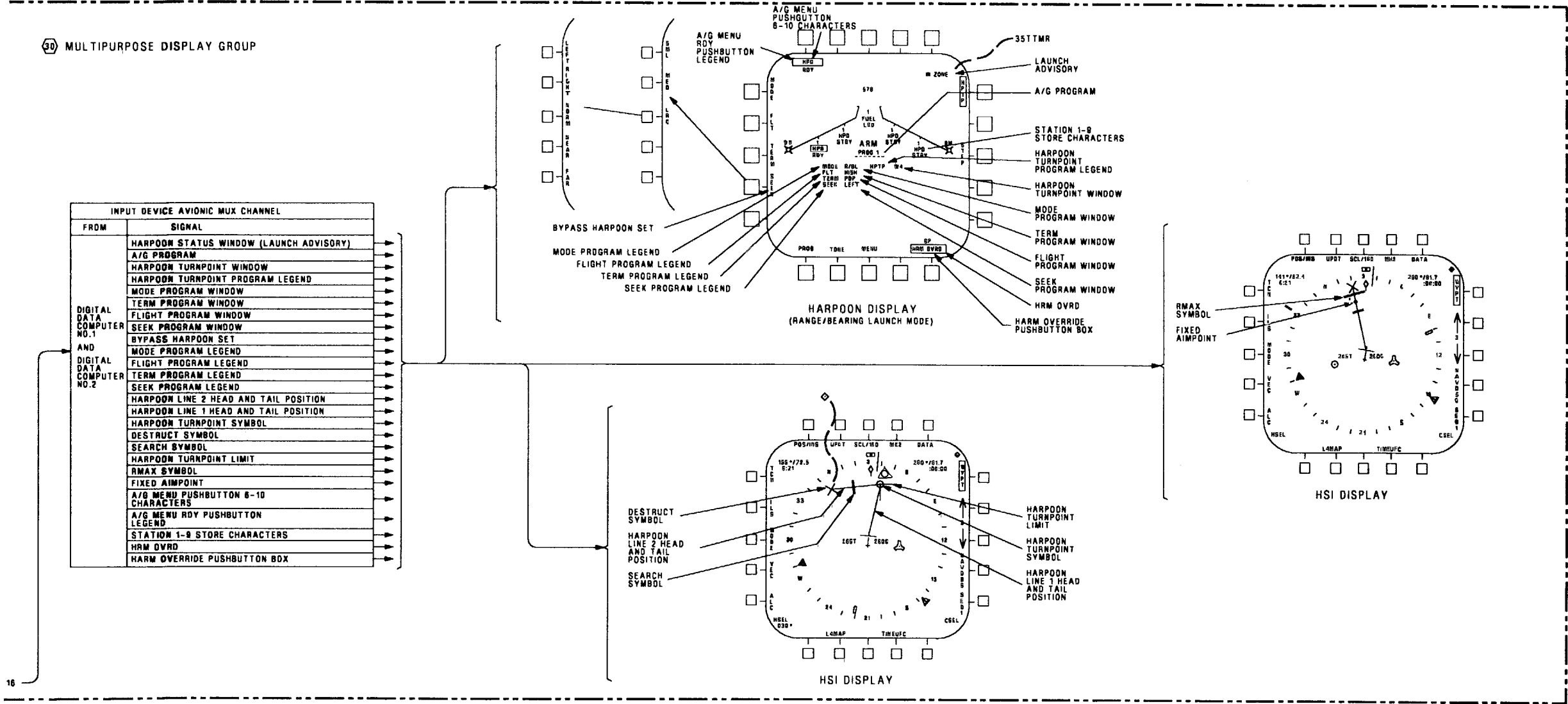


Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 20)

LEGEND

1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:	17	WEAPON SELECT SCHEMATIC, WP016 00.
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	18	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING. IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	19	APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
	C. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.	20	WEAPON STATION 2, 3, 7, 8 AGM-84 HARPOON SCHEMATIC, WP053 00.
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	21	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
4	LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130-500, WP004 00.	22	CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 00.
5	COCKPIT WARNING/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.	23	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
6	MASTER ARM-SCHEMATIC, WP017 00.	24	SENSOR CONTROL SWITCH AID THROTTLE DESIGNATOR-CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.
7	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	25	AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.
8	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	26	IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION, TROUBLESHOOT USING DISPLAYS TEST, A1-F18AC-745-200, WP004 00 (F/A-18A).
9	SIMULATION MODE SELECT SCHEMATIC, WP022 00.	27	AGM-88 HARM ARMAMENT COMPUTER/CMD COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP056 00.
10	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.	28	DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
11	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORES CODES AND WEAPON DISPLAYS, WP009 00.	29	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST, A1-F18AC-745-200, WP004 00 (F/A-18A).
12	STORES INVENTORY SCHEMATIC, WP015 00.	30	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.
13	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.	31	AFTER F/A-18 AFC 231.
14	LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.		
15	SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.		
16	ARMAMENT MUX BUS DATA WP010 00.		

Figure 1.

Figure 1. AGM-84 Harpoon Avionic Interface Schematic (Sheet 21)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-84 SLAM AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

Reference Material

None

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Subject	Page No.
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Introduction	1

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. **INTRODUCTION.**

schematic supplements weapon station 2, 3, 7, and 8 AGM-84 schematics.
2. The work package shows the aircraft system functions related to the AGM-84 SLAM. The

3. Component locations are shown in WP008 00.

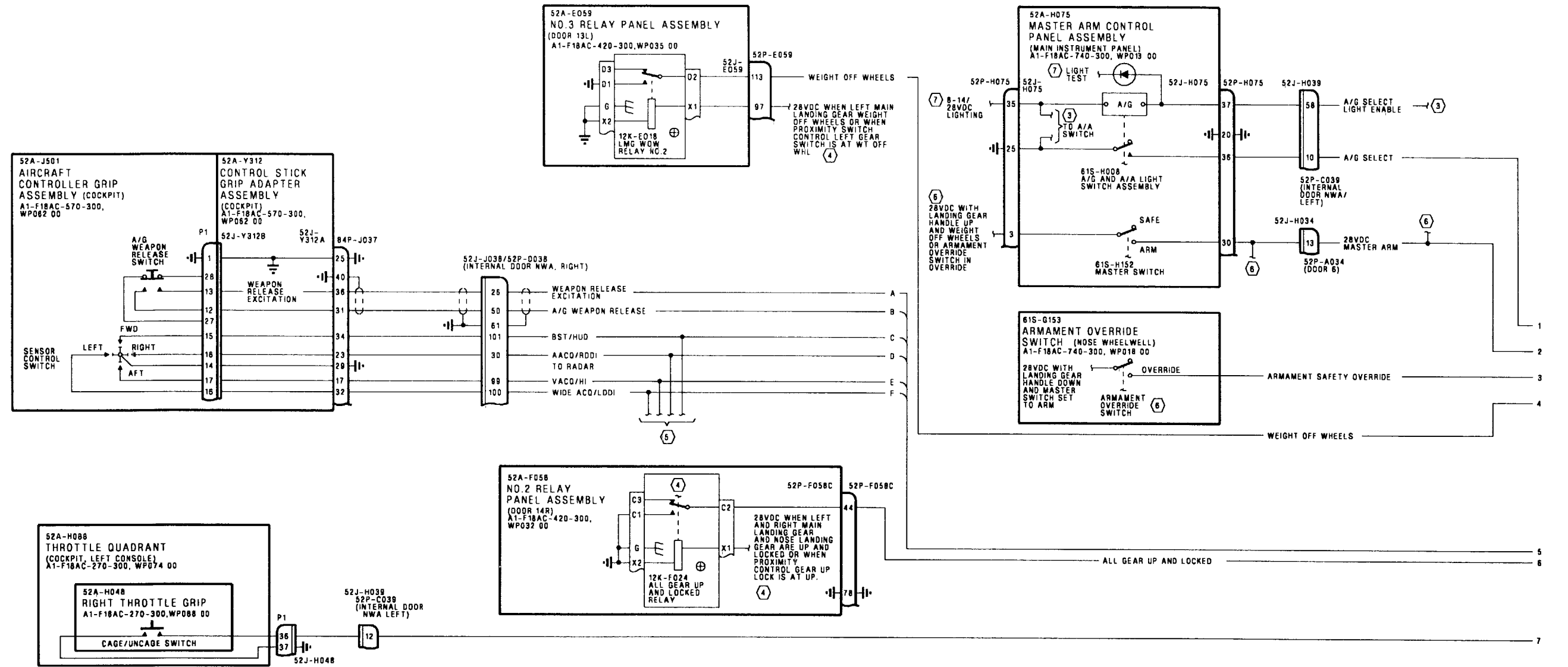


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 1)

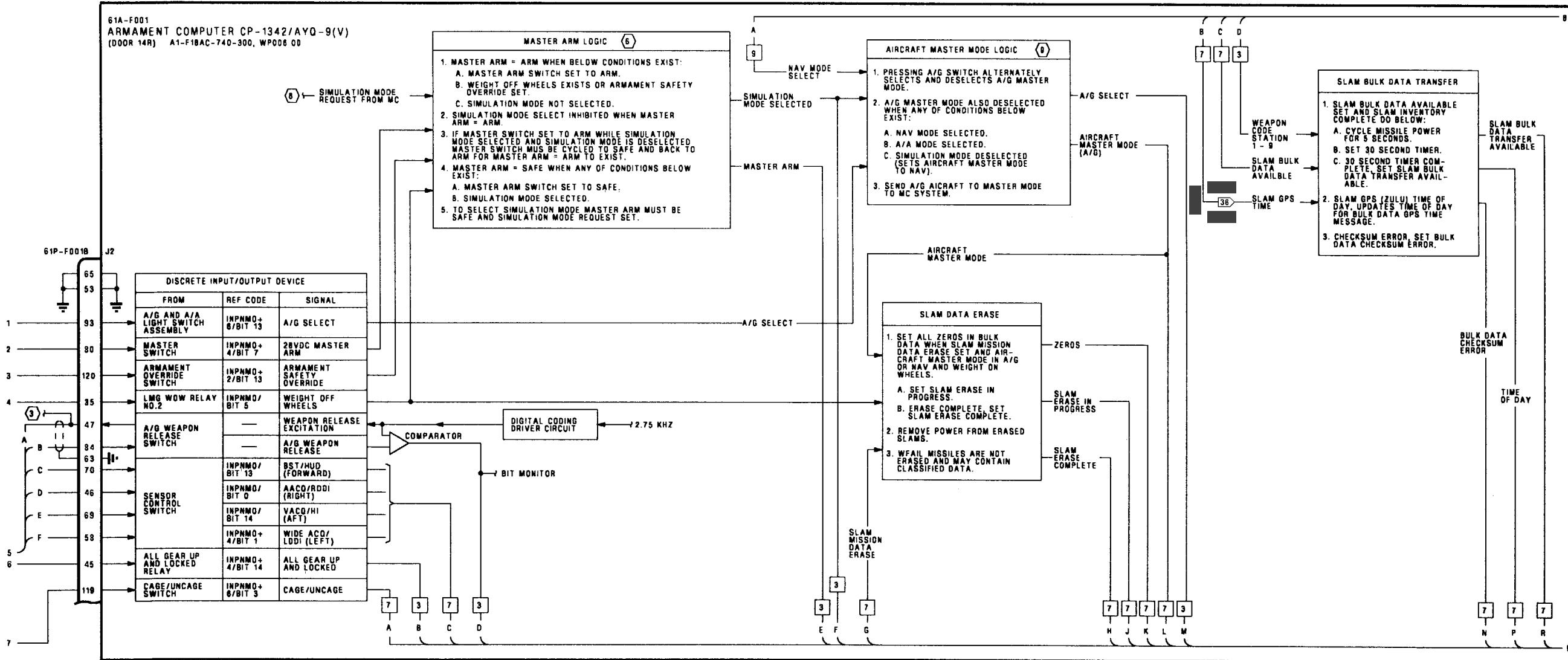


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 2)

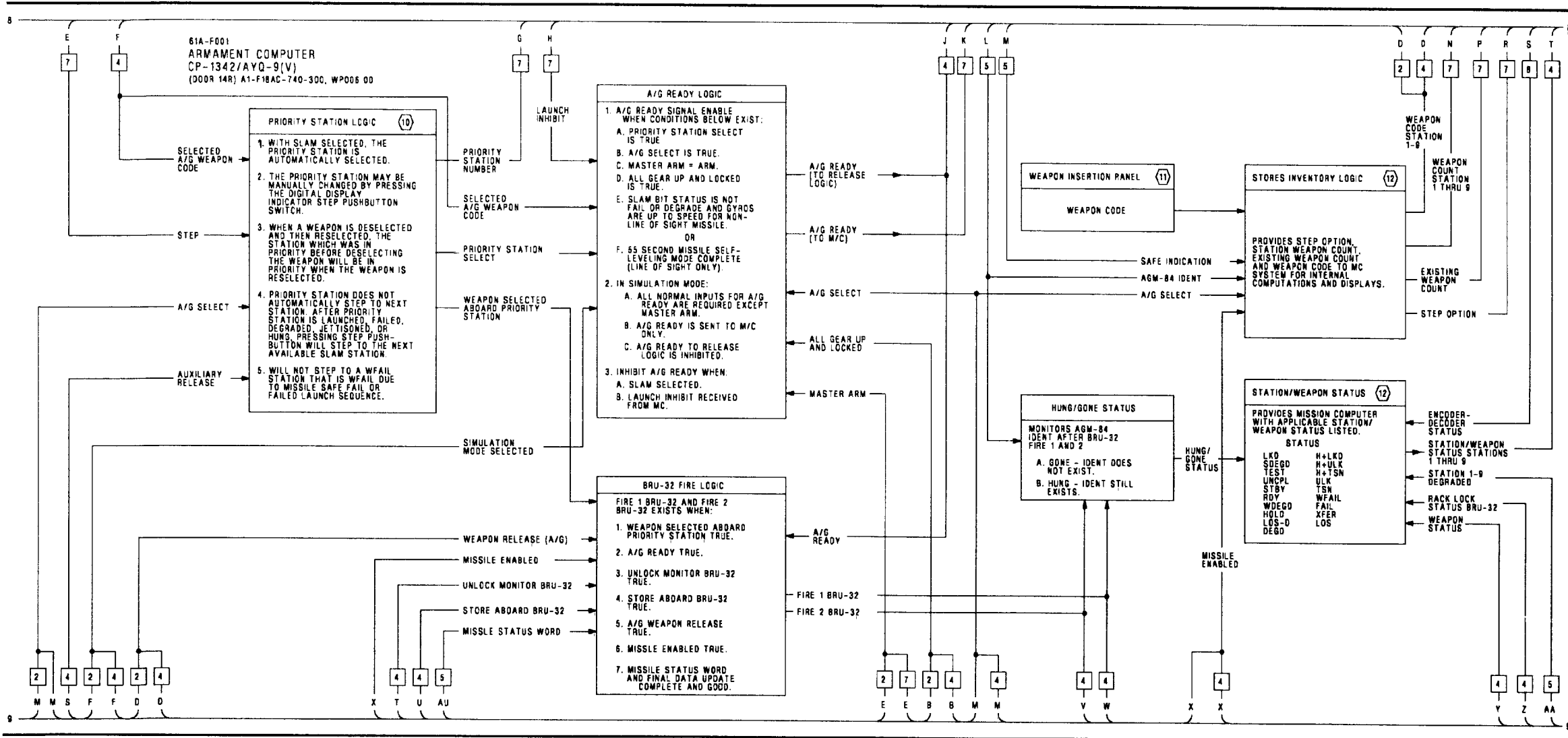


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 3)

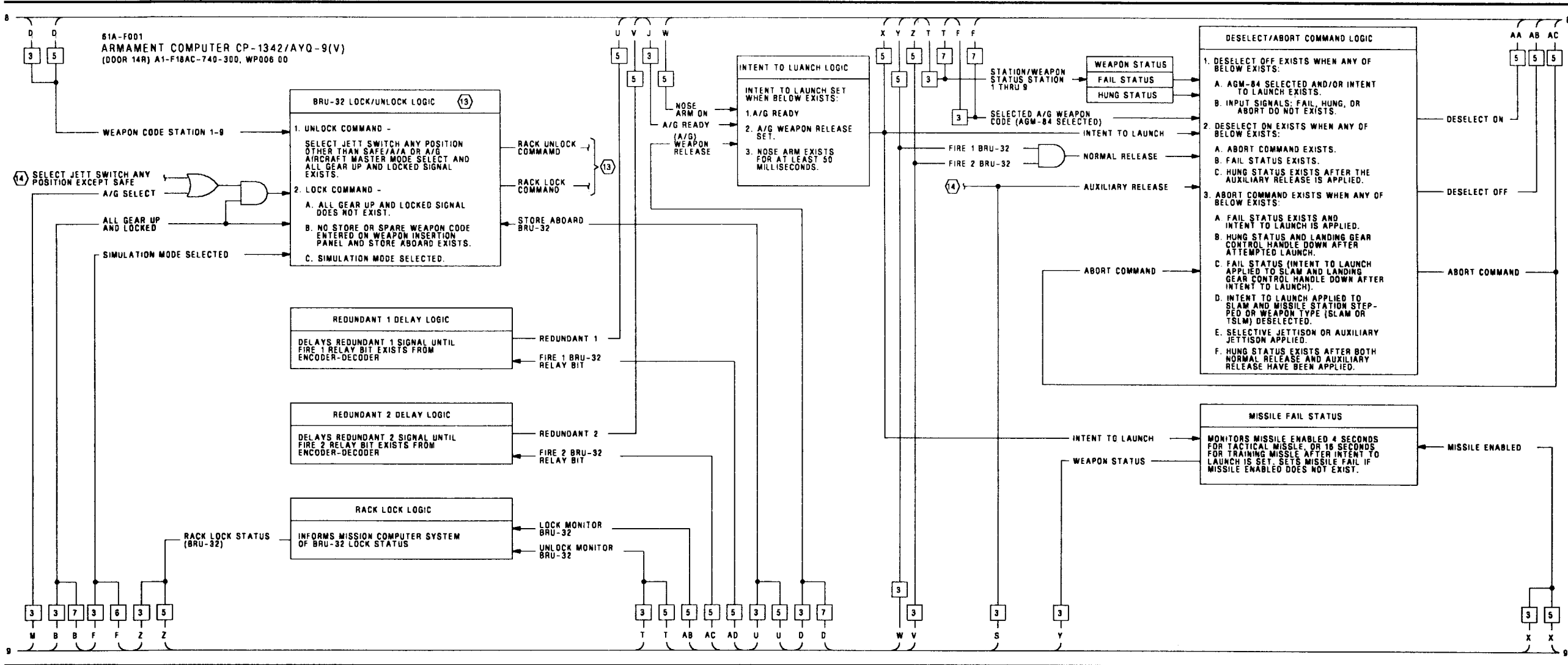


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 4)

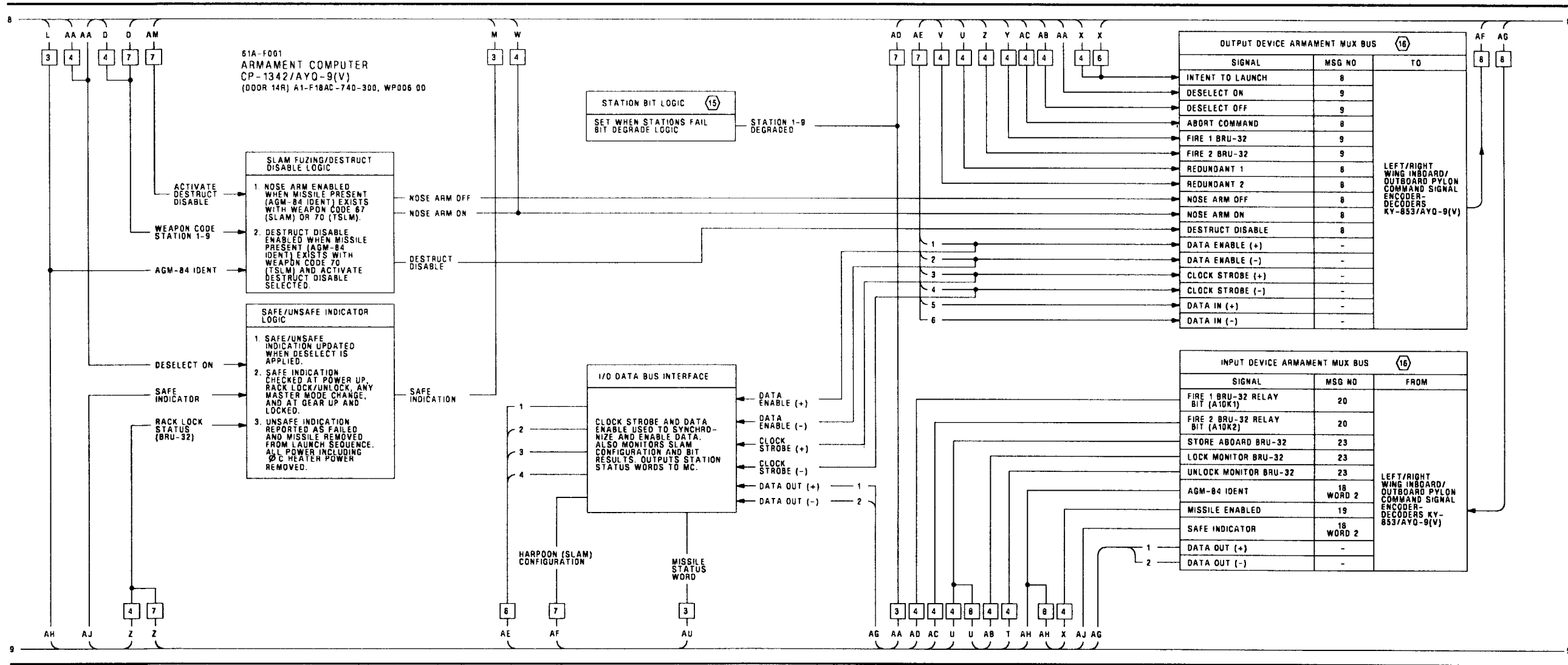


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 5)

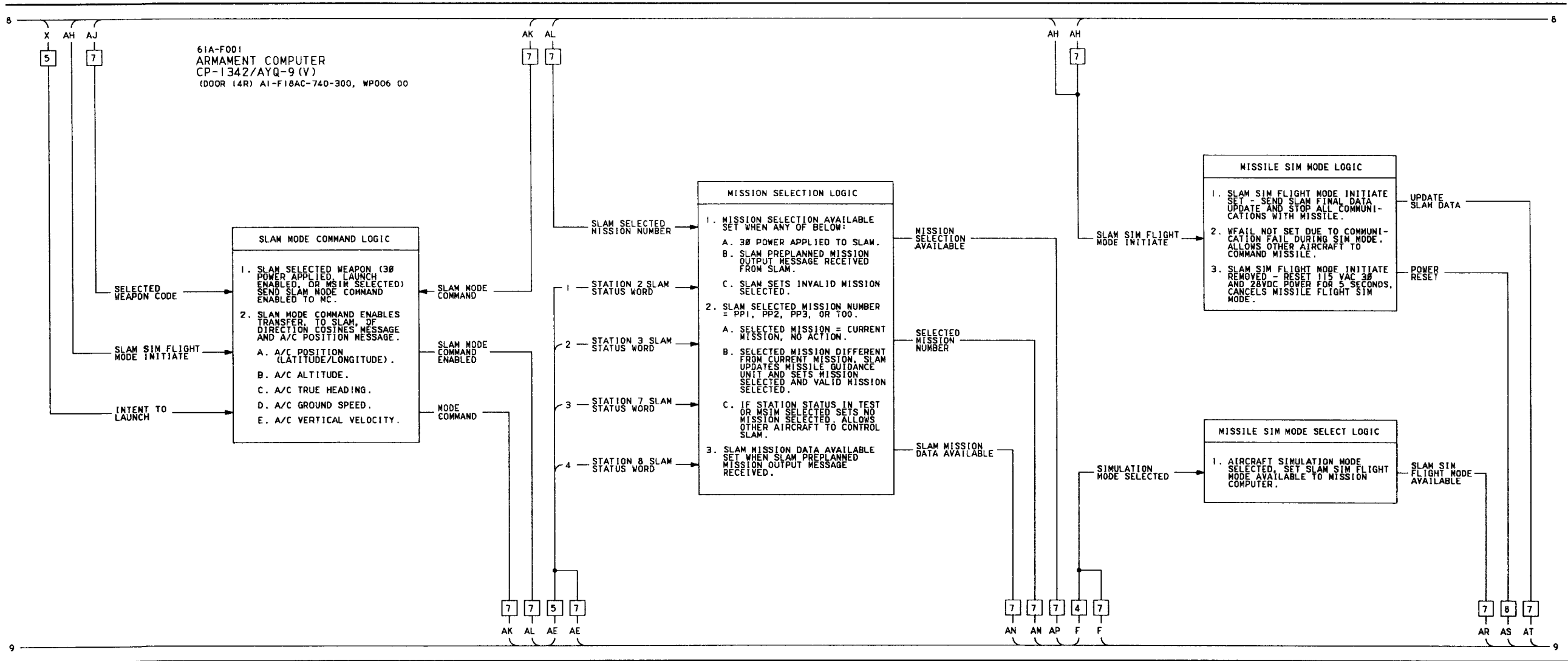


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 6)

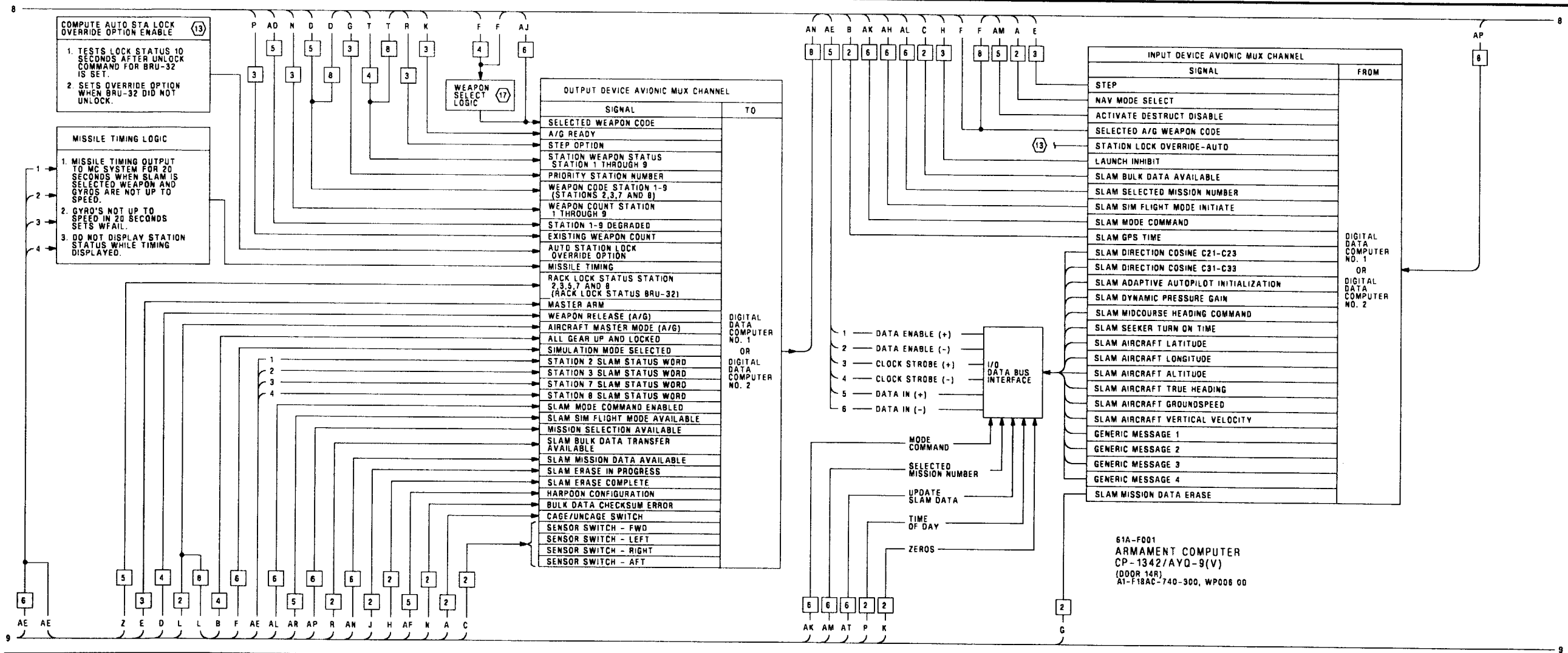


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 7)

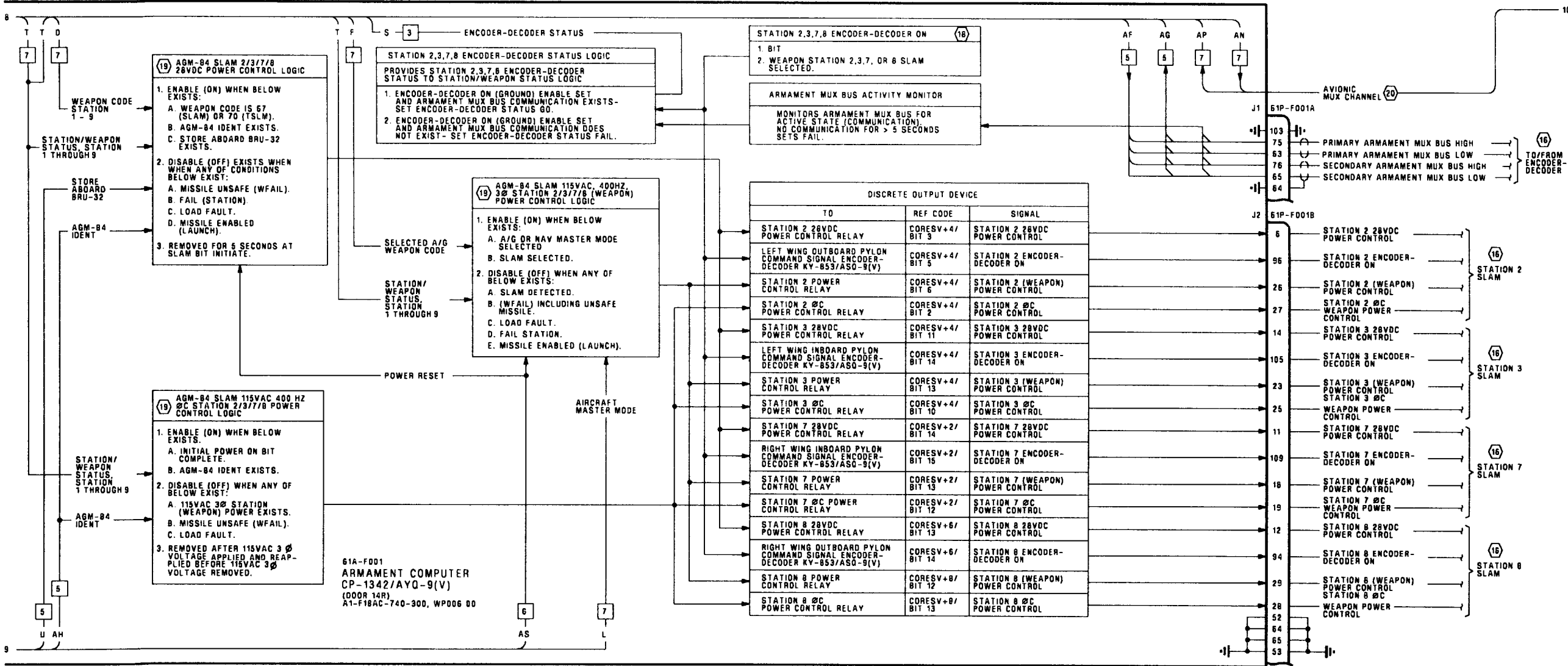


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 8)

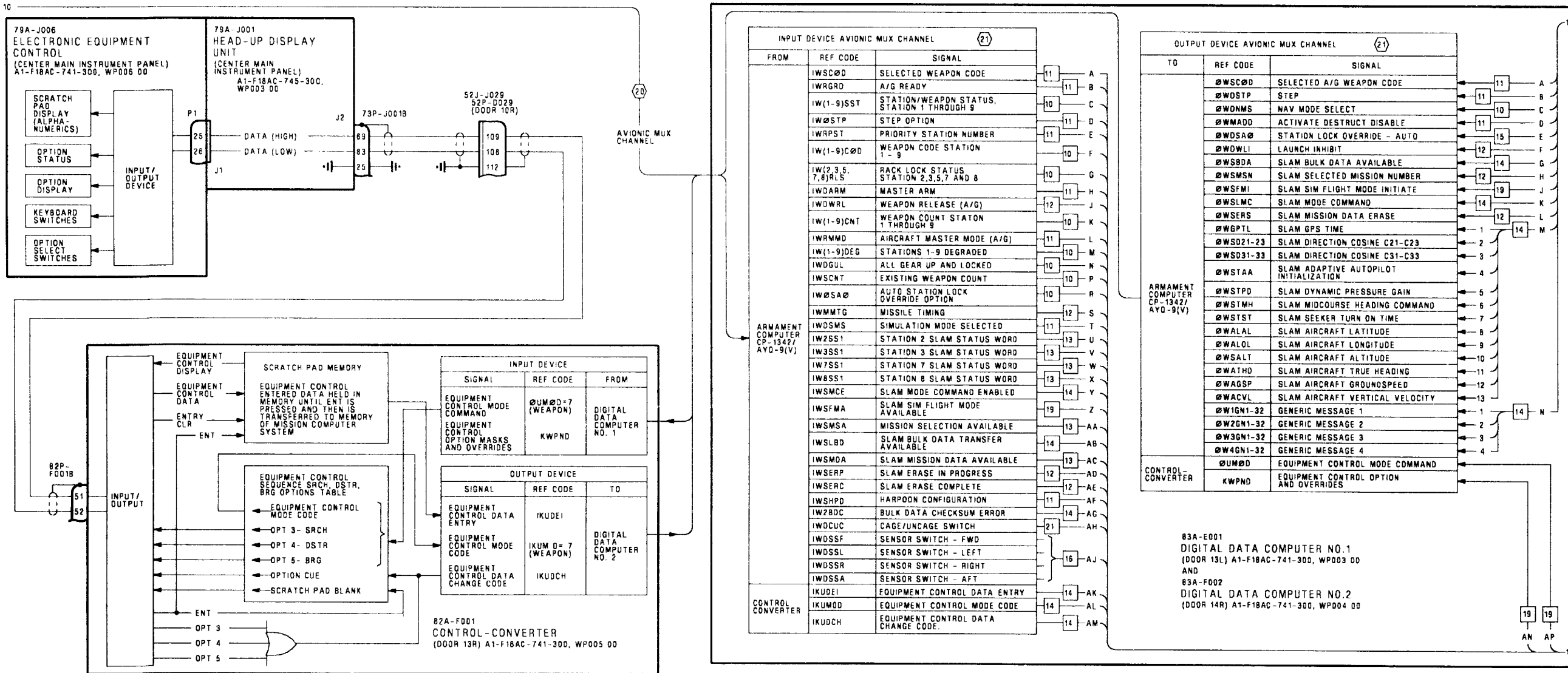


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 9)

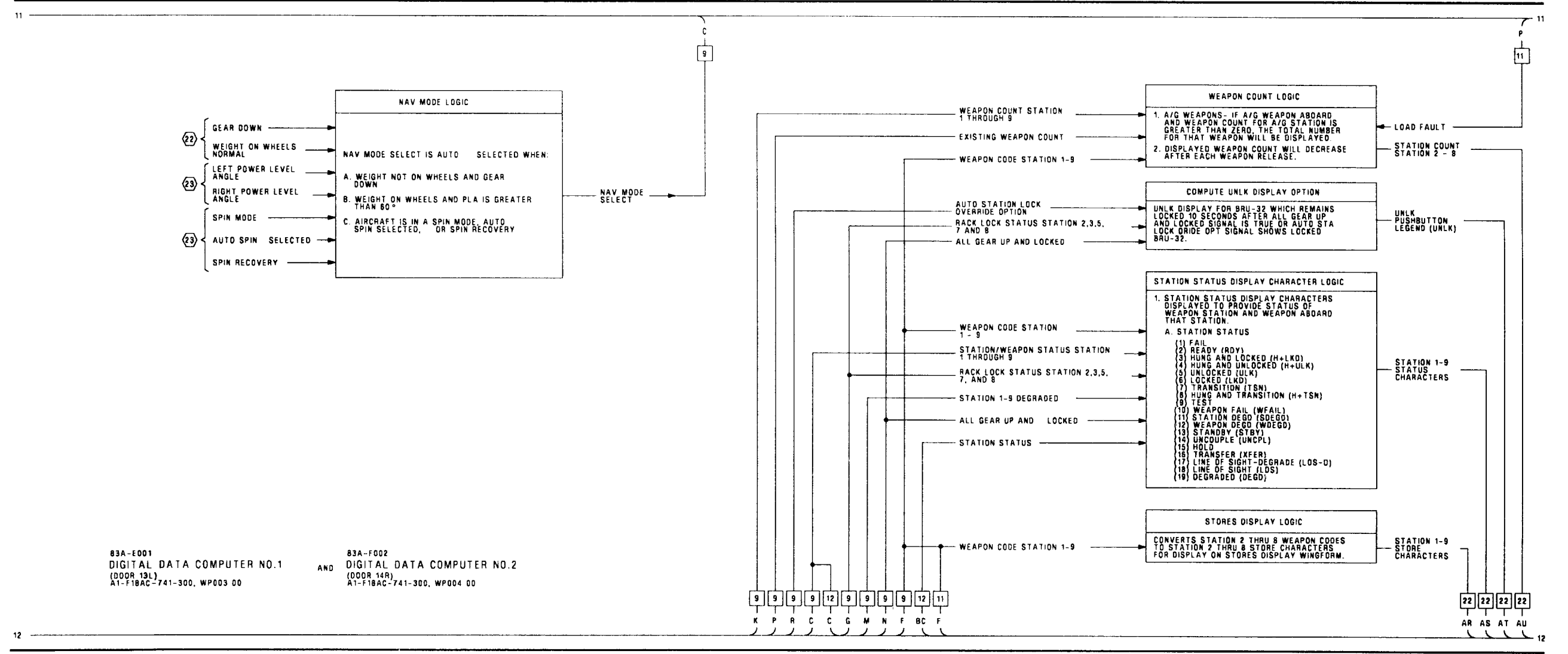


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 10)

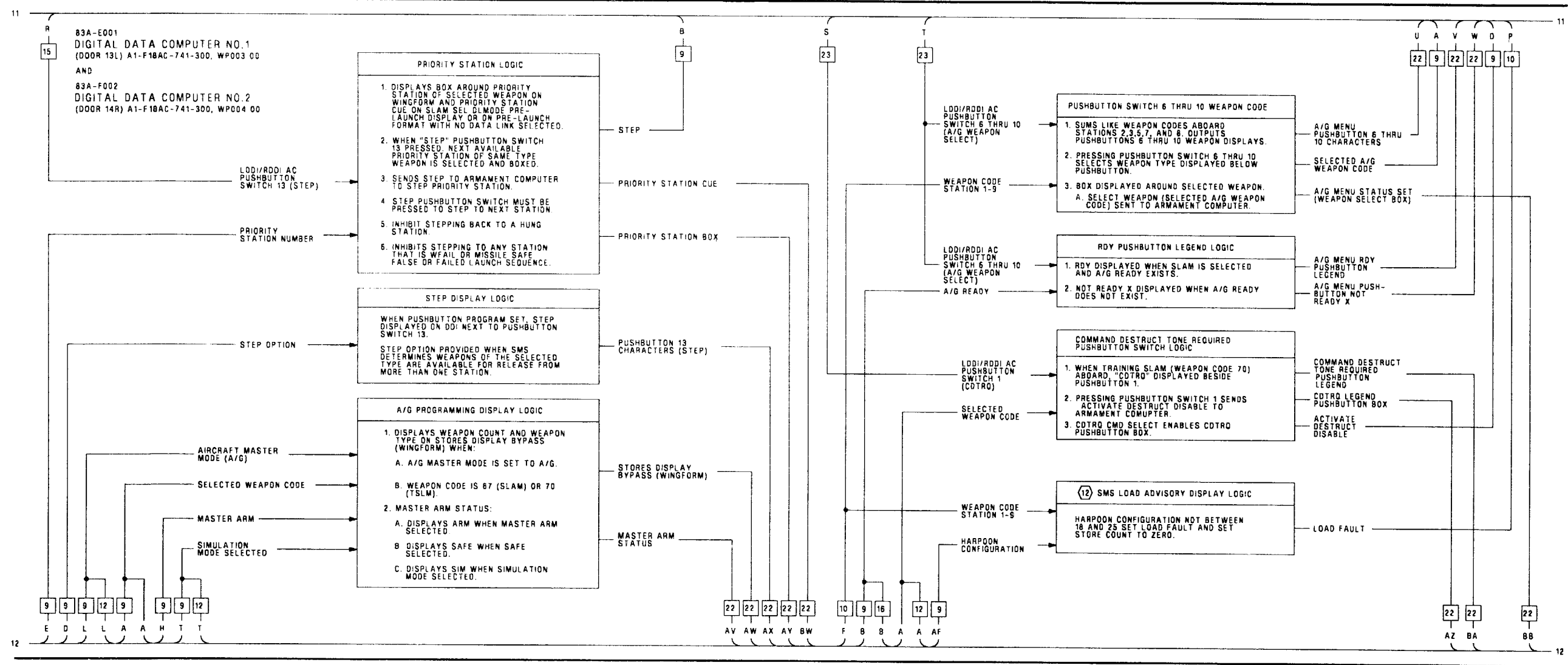


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 11)

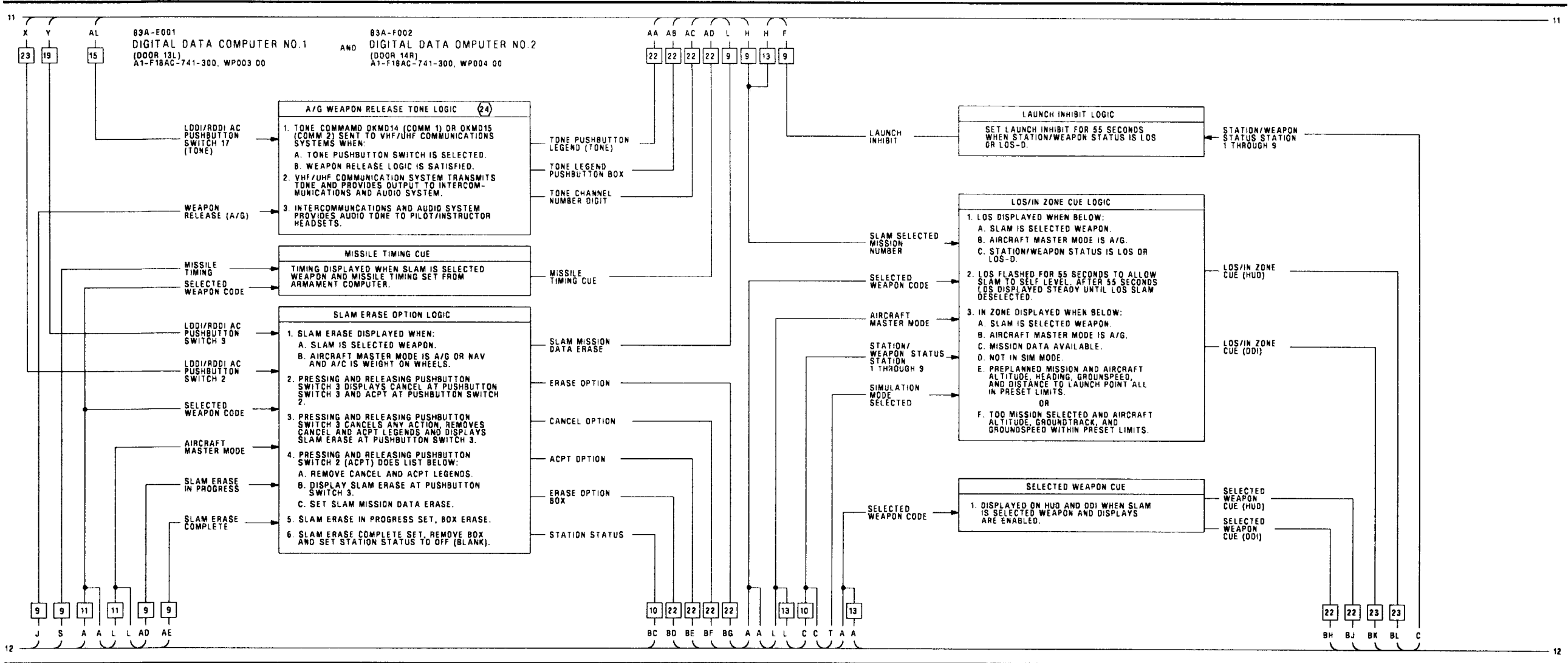


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 12)

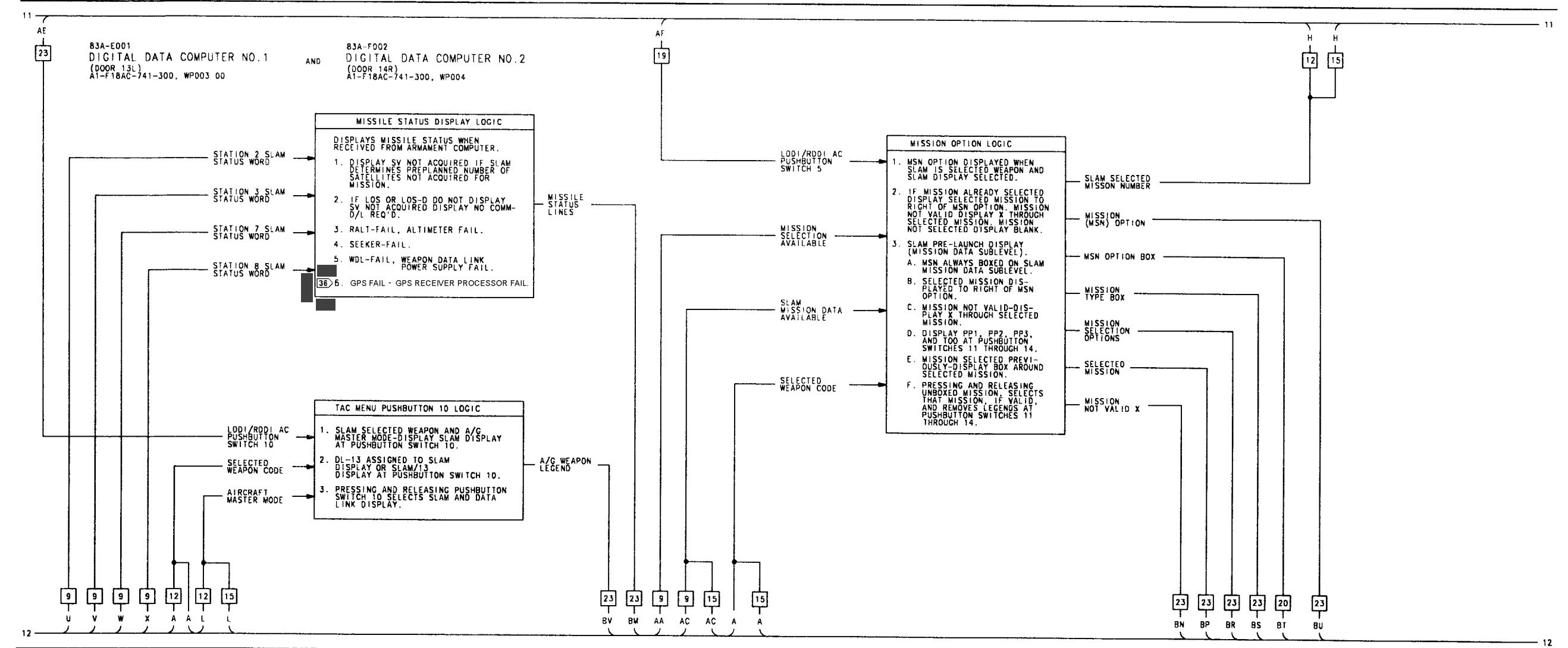


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 13)

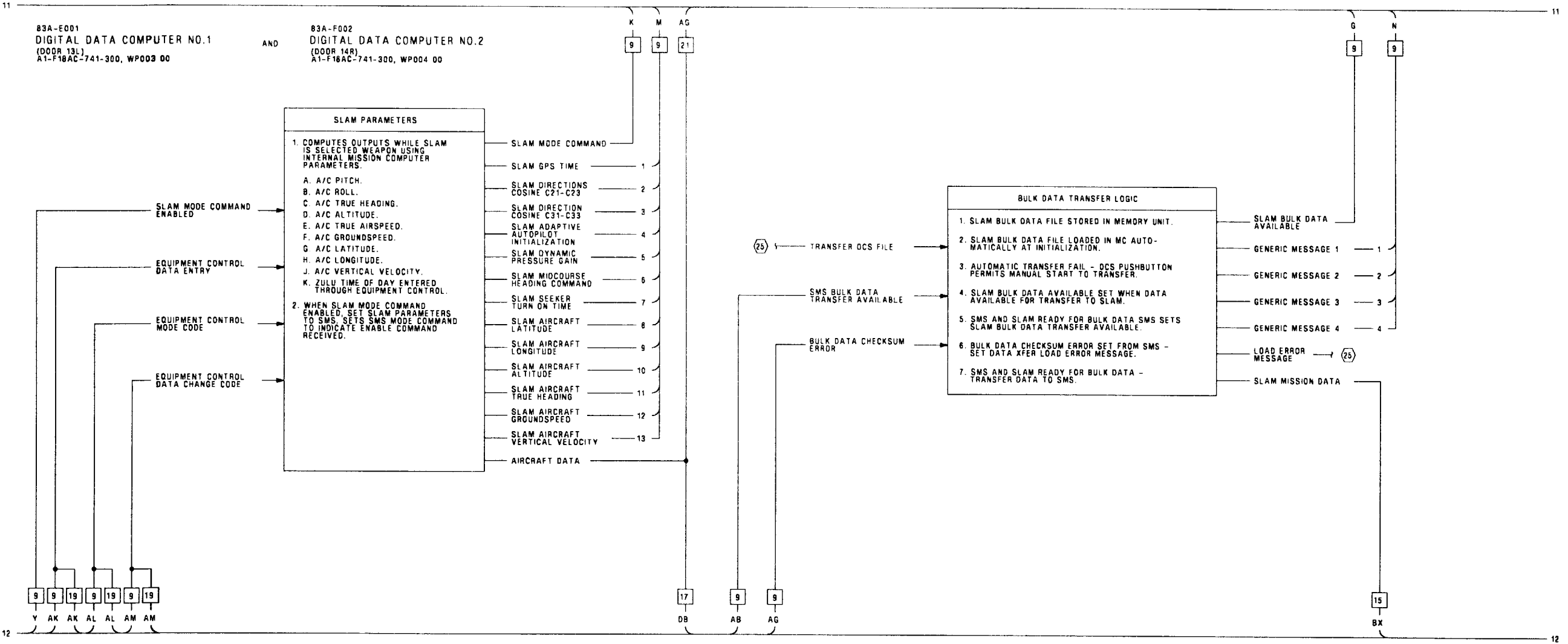


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 14)

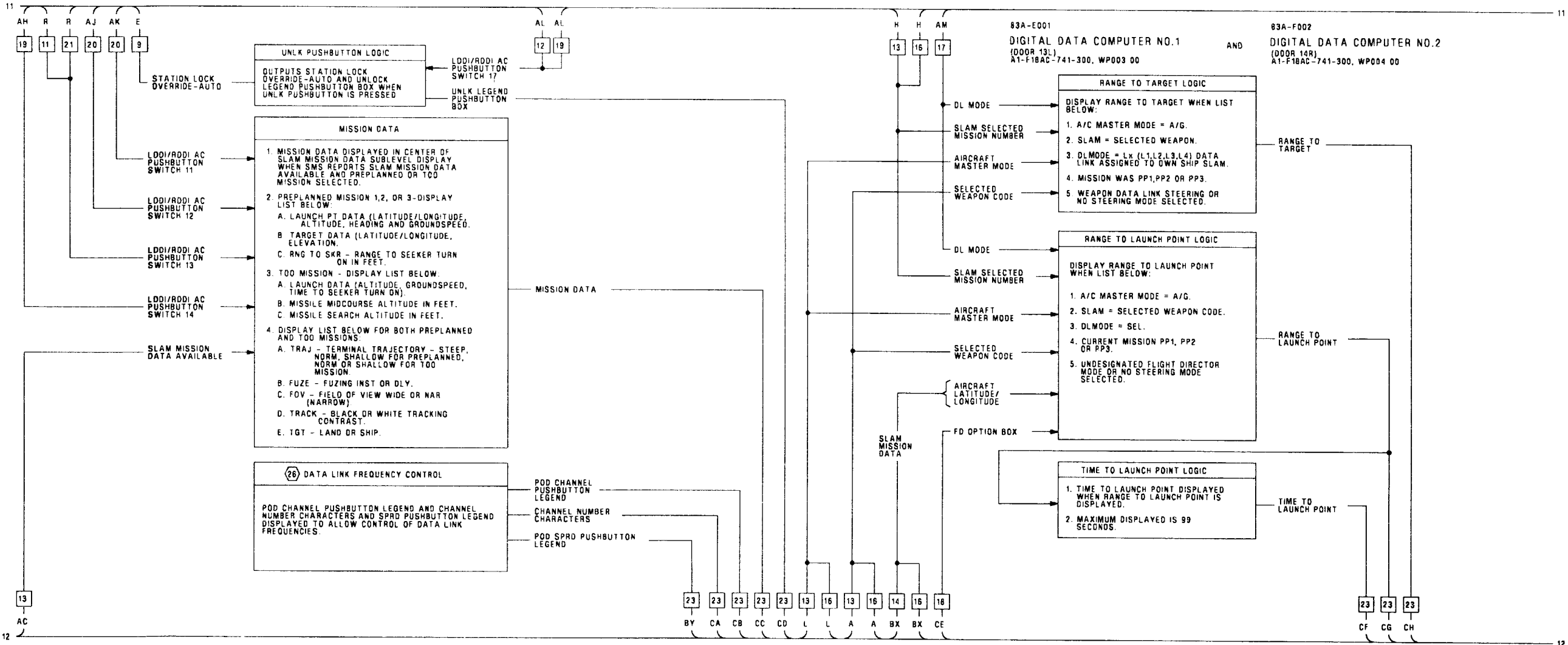


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 15)

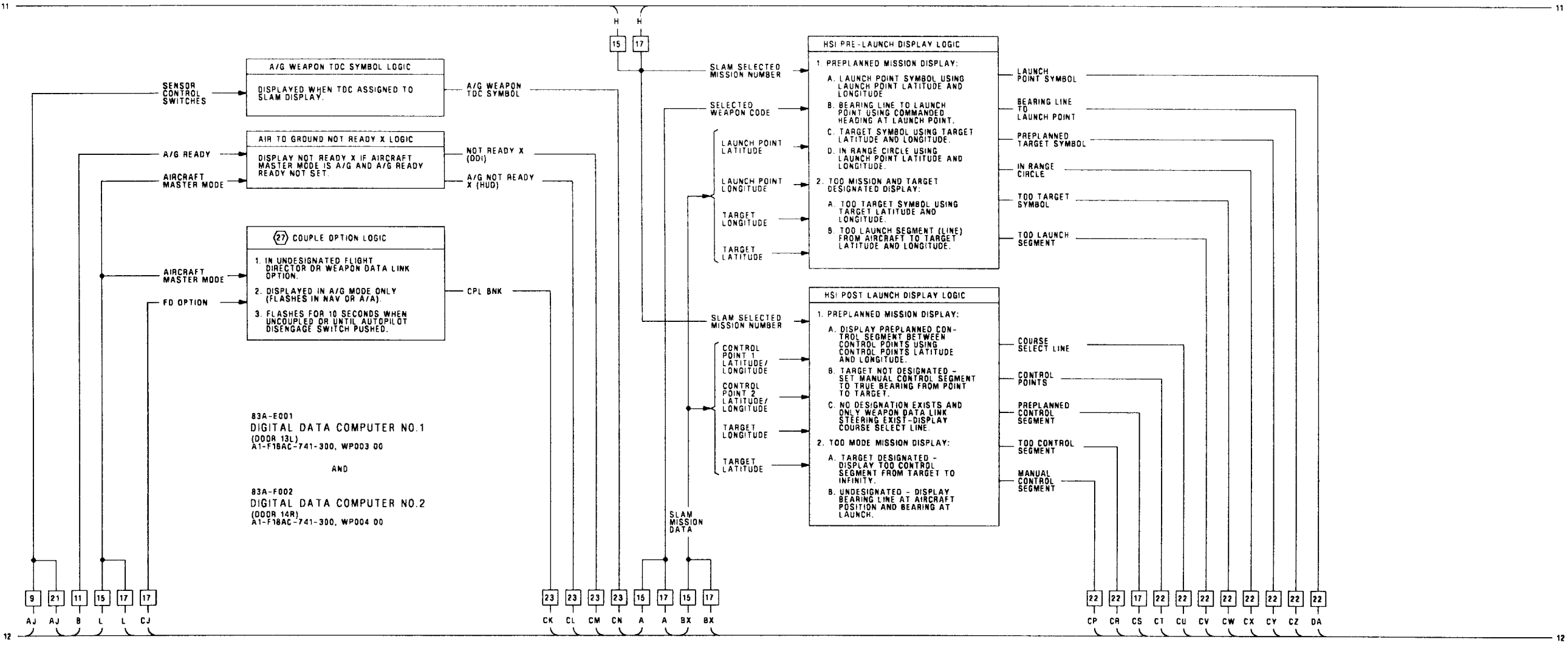


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 16)

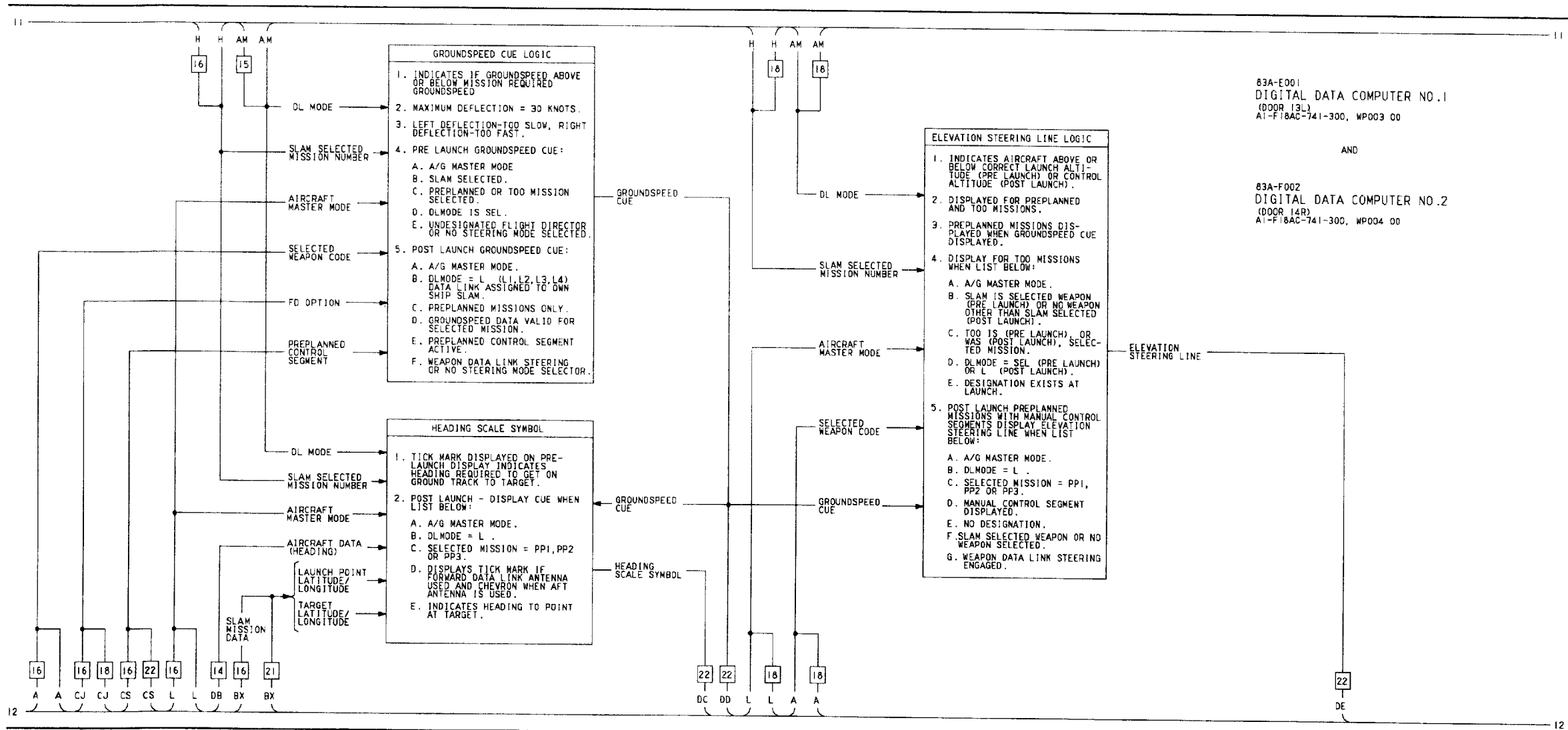


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 17)

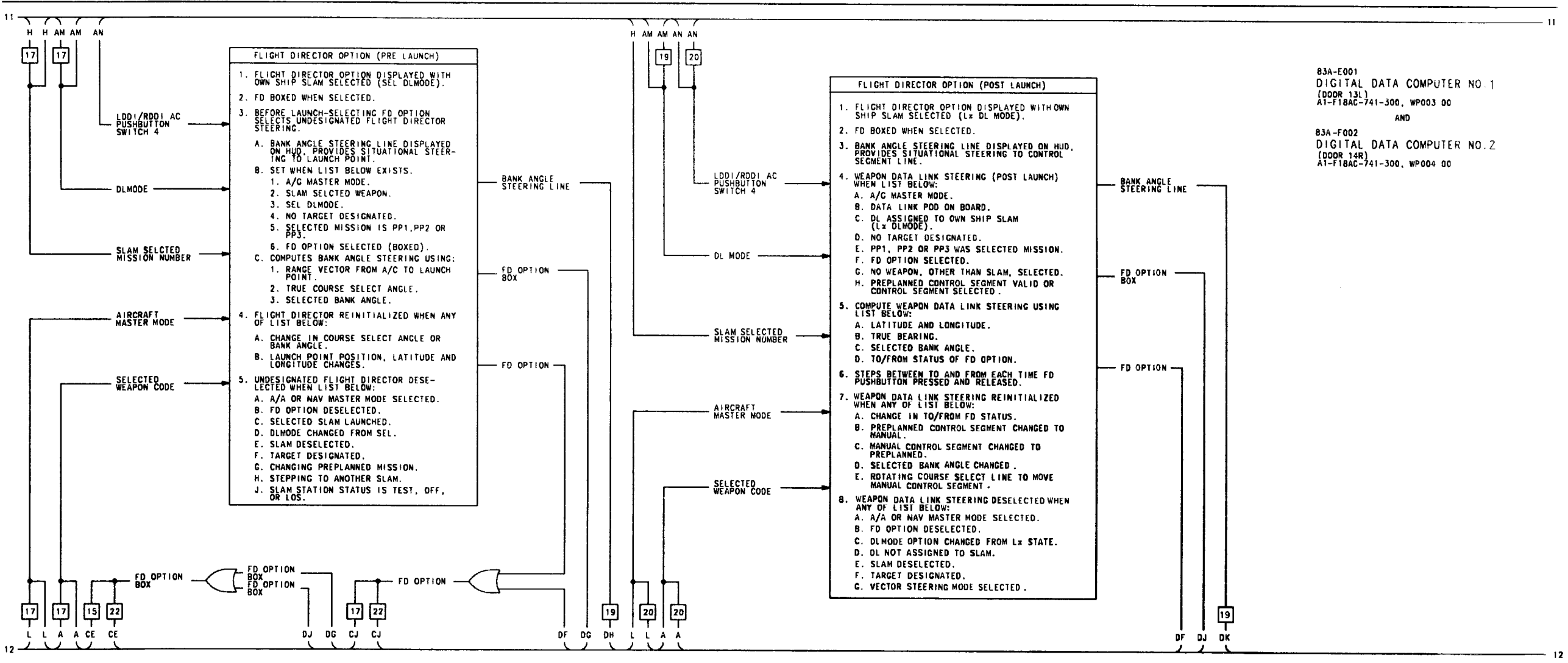


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 18)

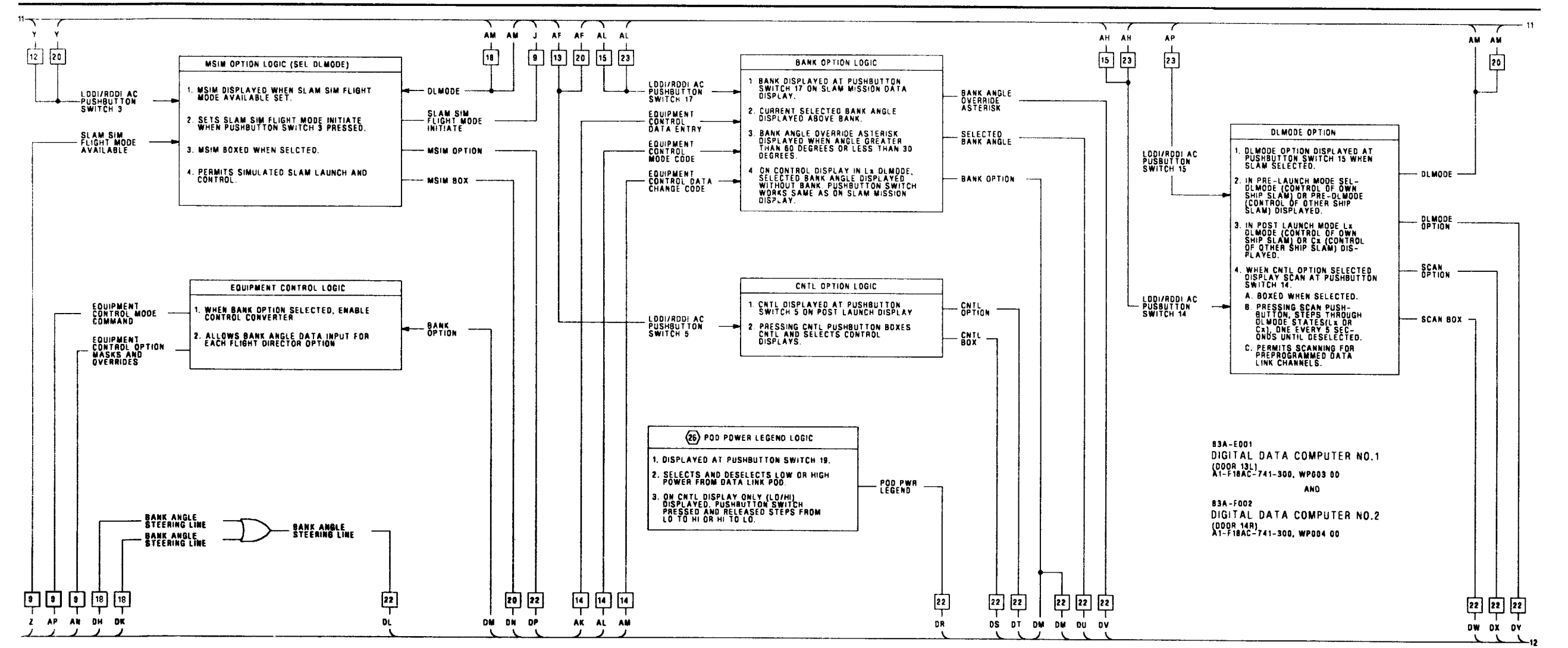


Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 19)

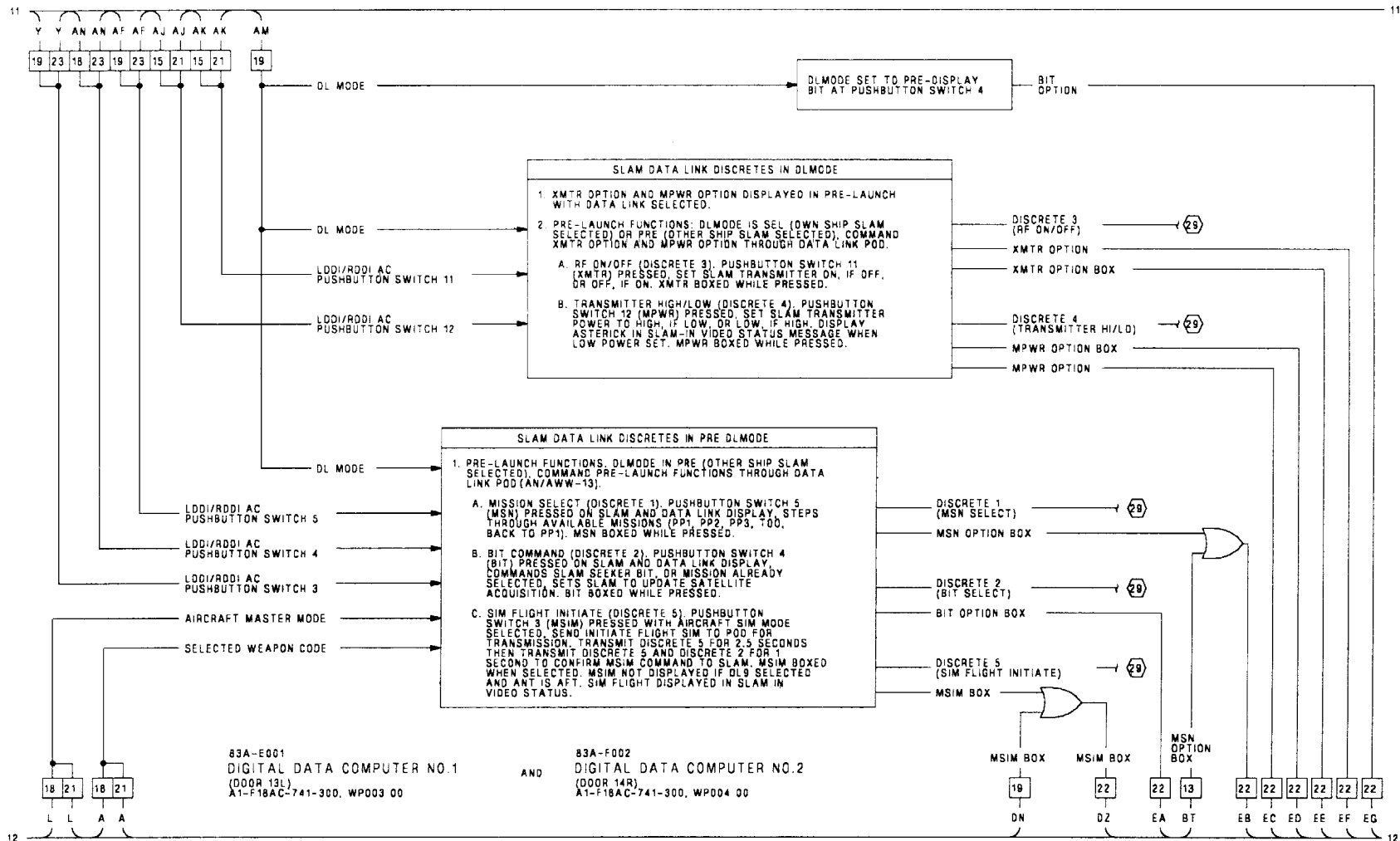


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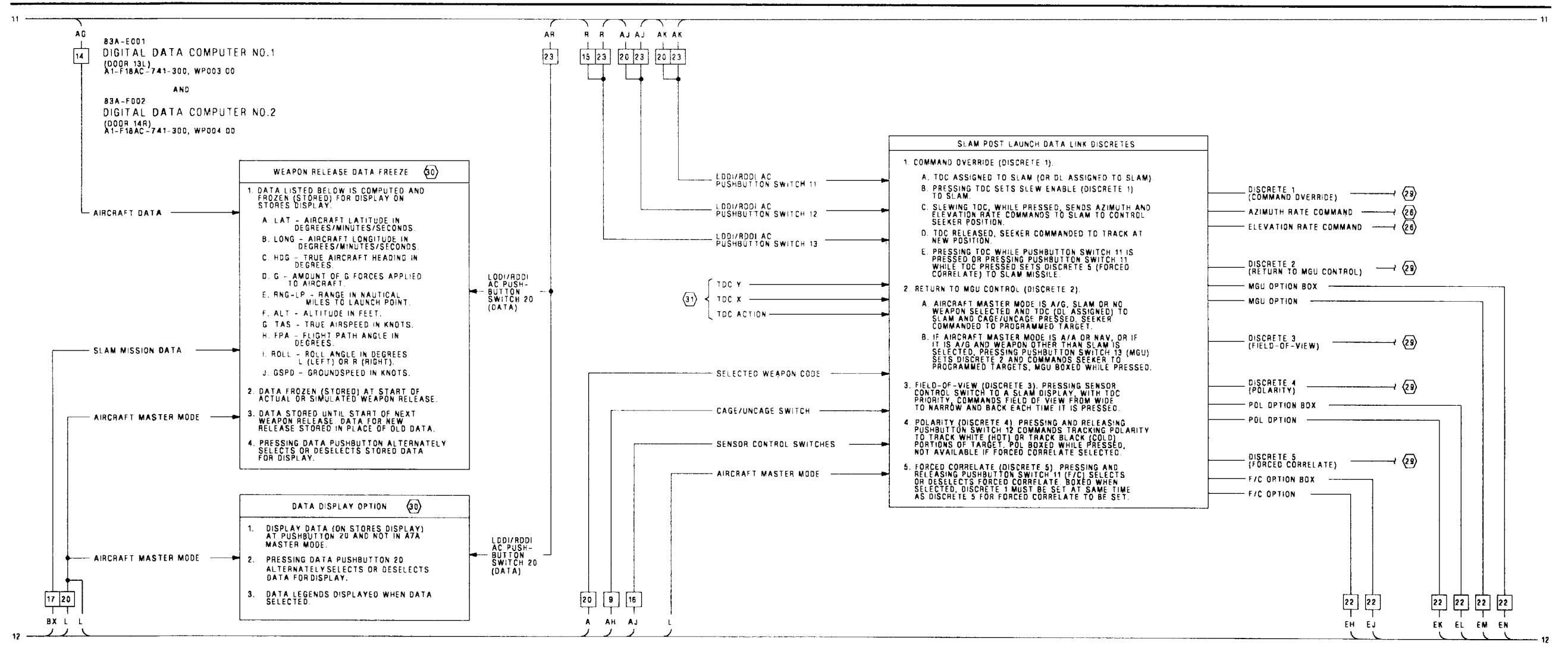


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 21)

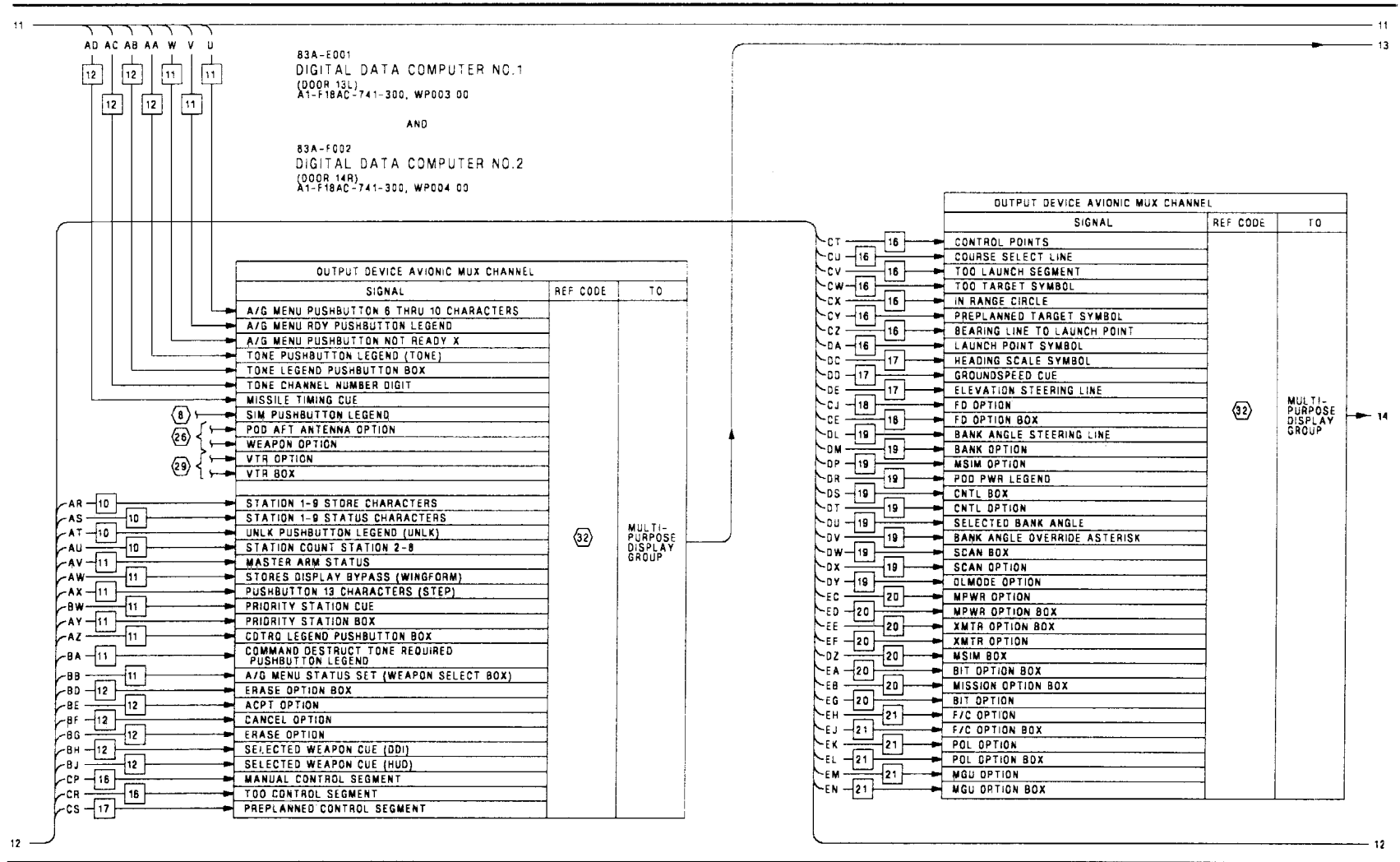


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Figure 1. AGM-87 SLAM Avionic Interface Schematic (Sheet 22)

Figure 1.

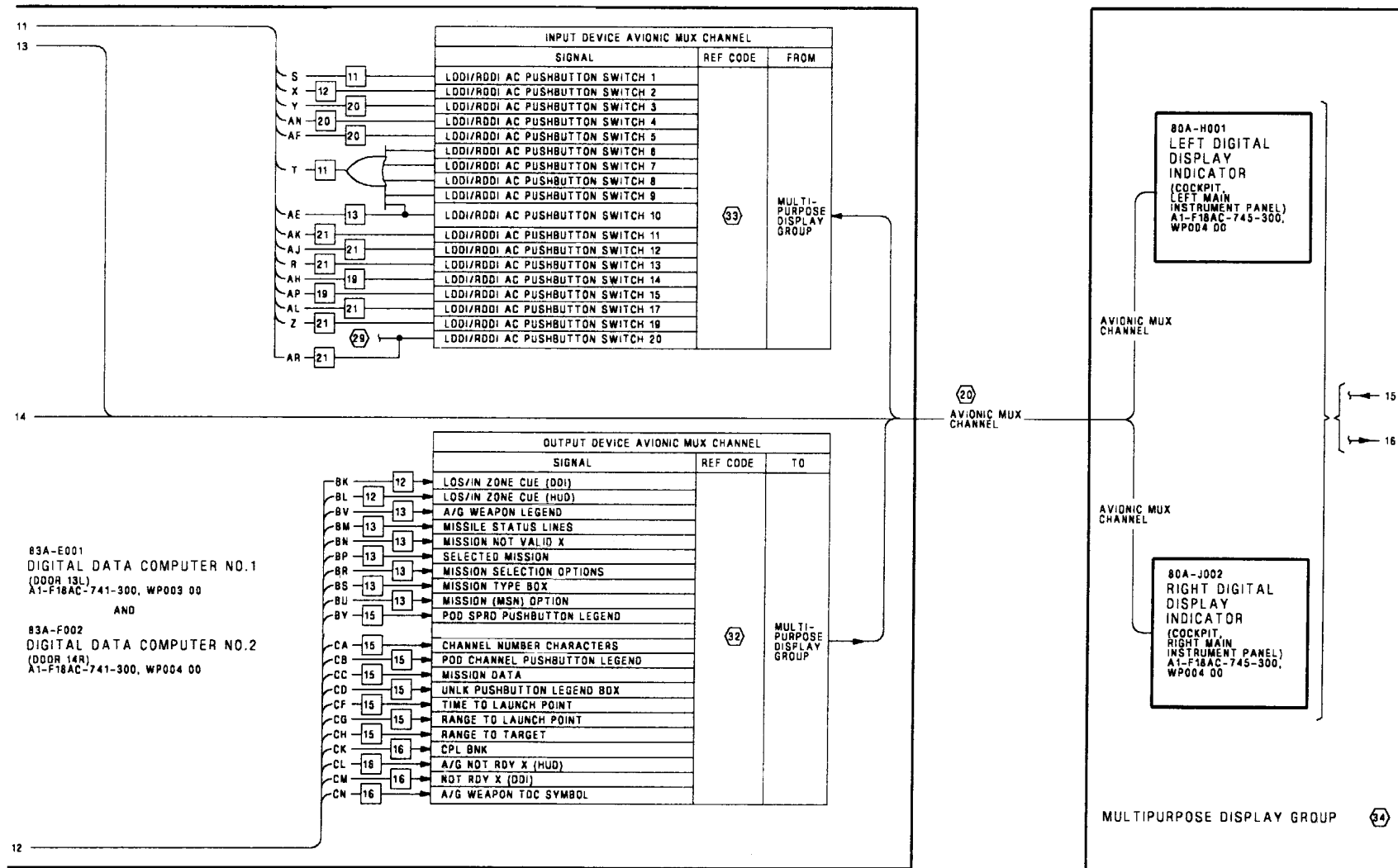


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Figure 1. AGM-87 SLAM Avionic Interface Schematic (Sheet 23)

Figure 1.

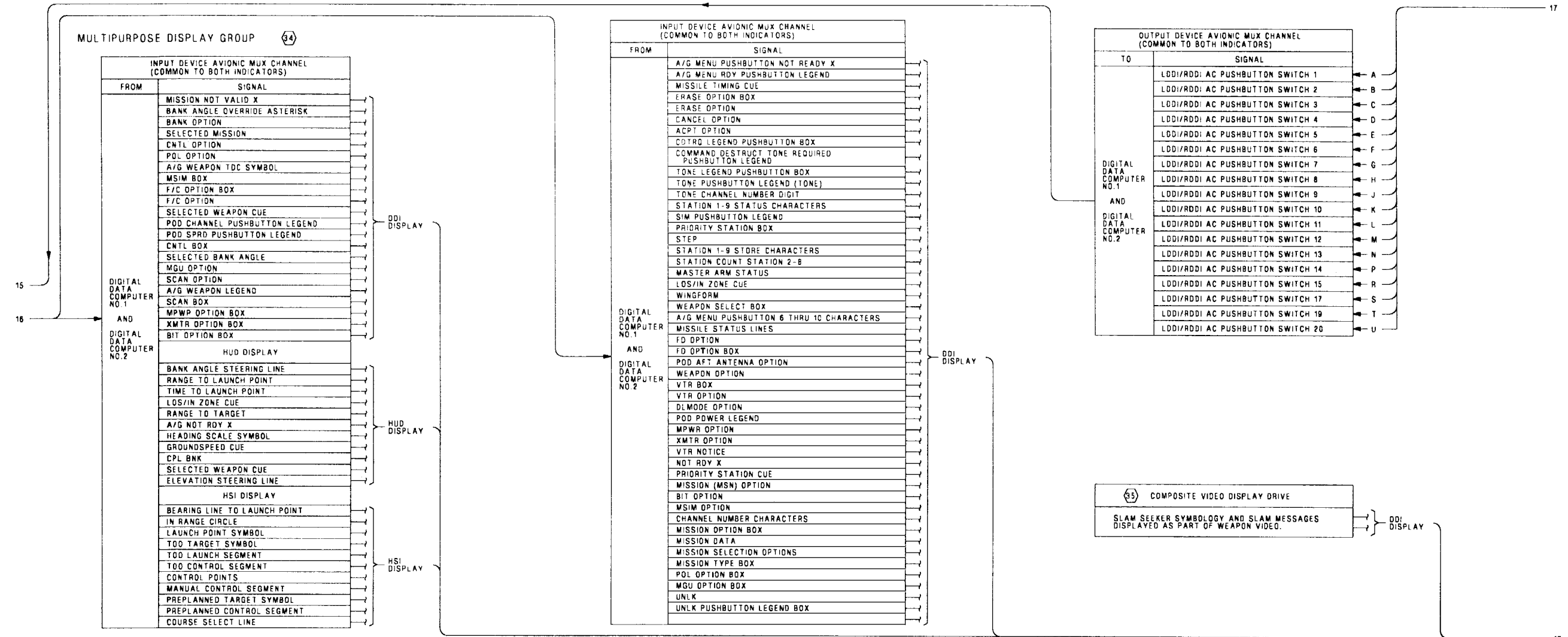
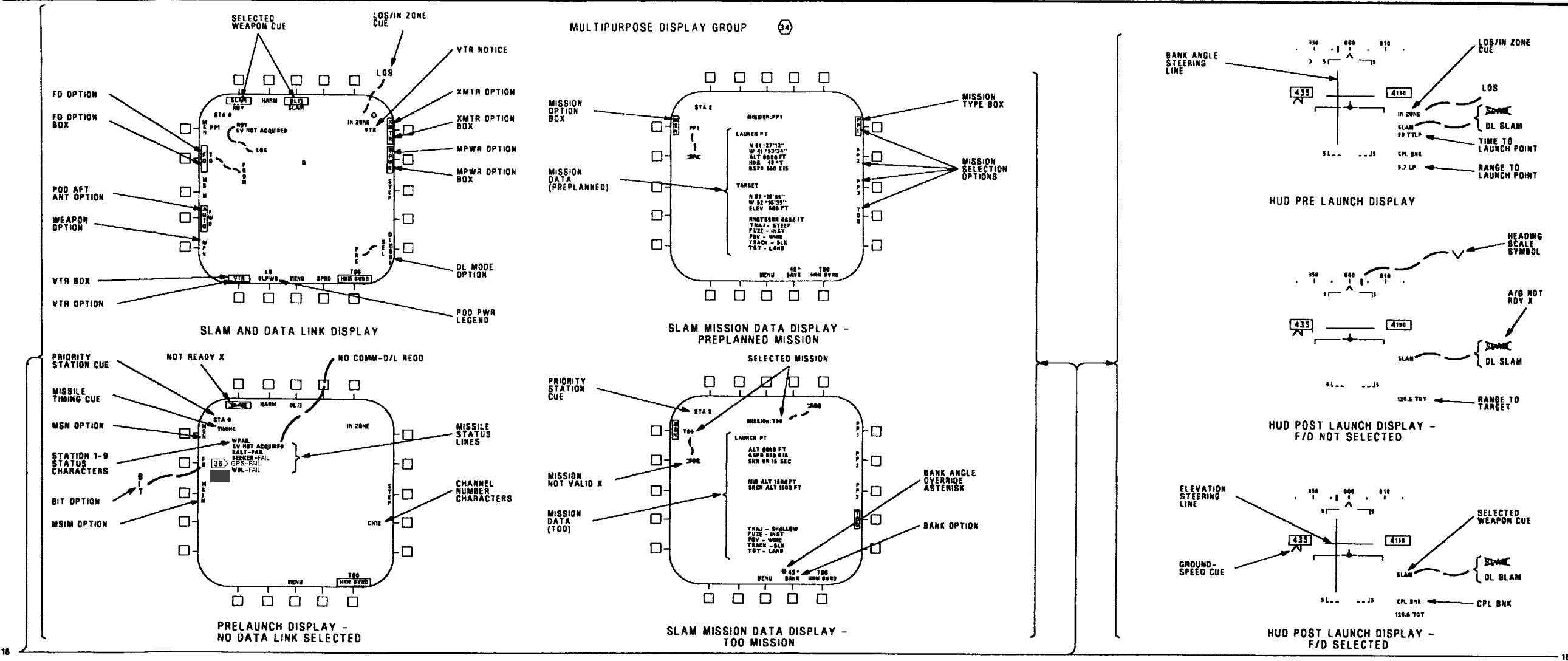


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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 24)

Figure 1.





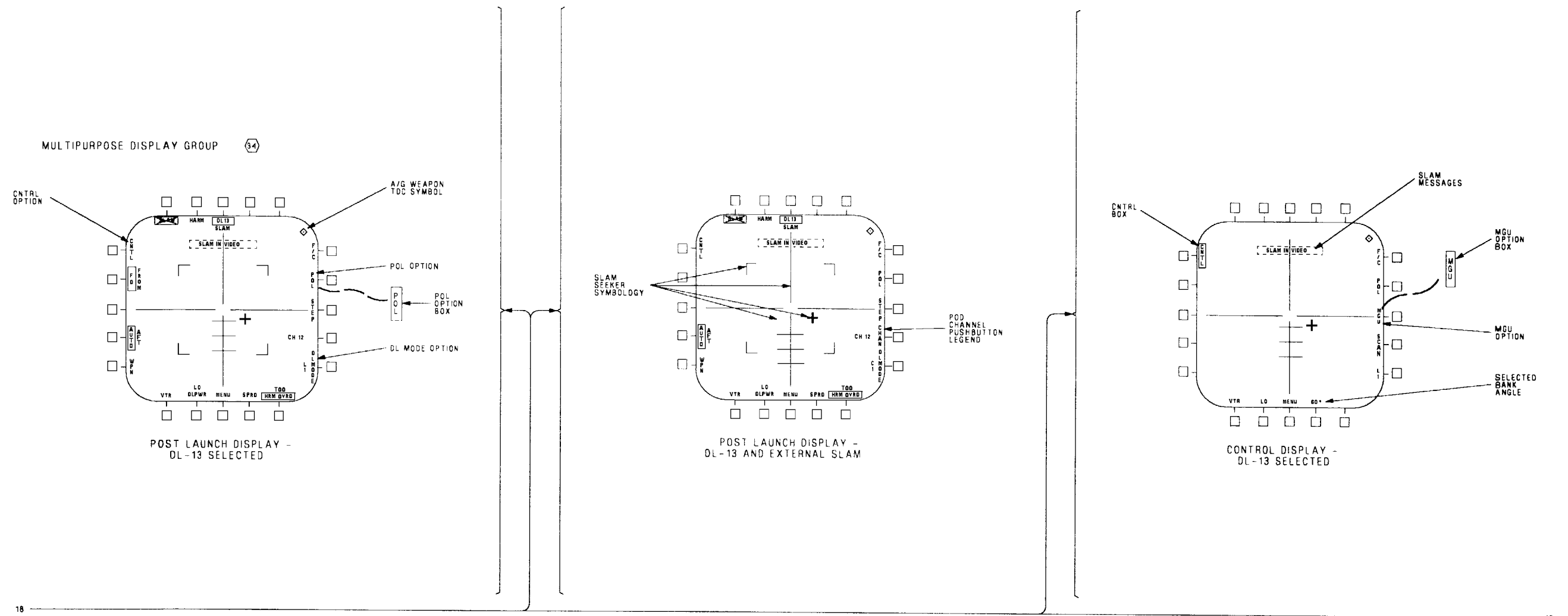
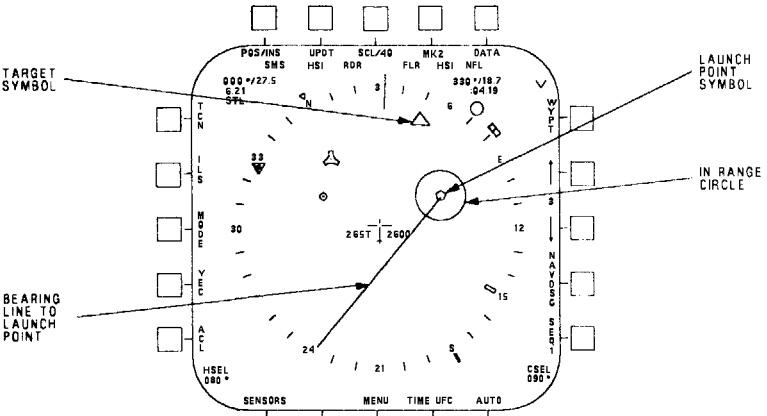


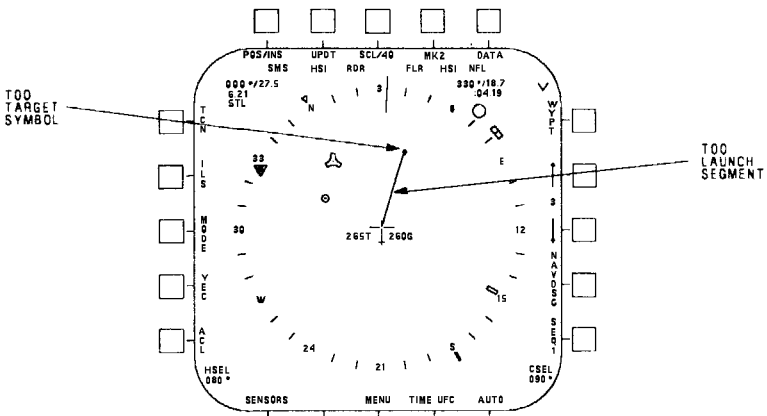
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Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 27)

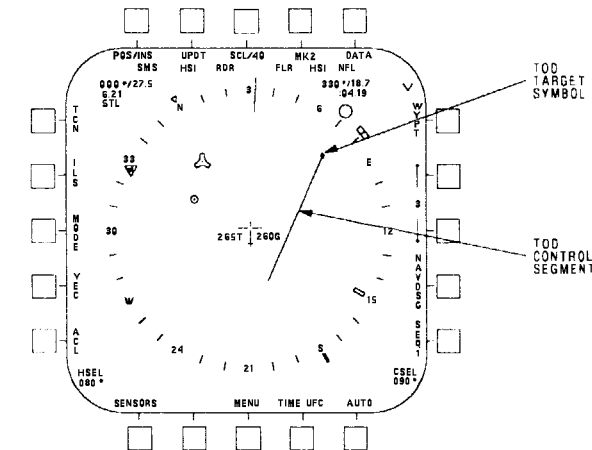
MULTIPURPOSE DISPLAY GROUP (34)



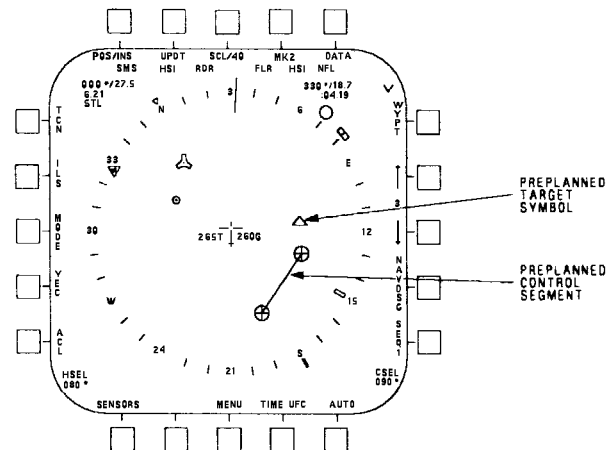
HSI DISPLAY - PRELAUNCH



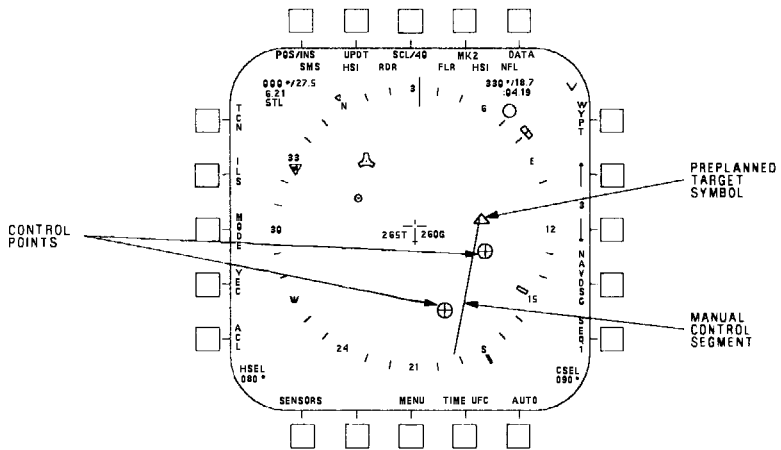
HSI DISPLAY - PRELAUNCH
TOO LAUNCH SEGMENT



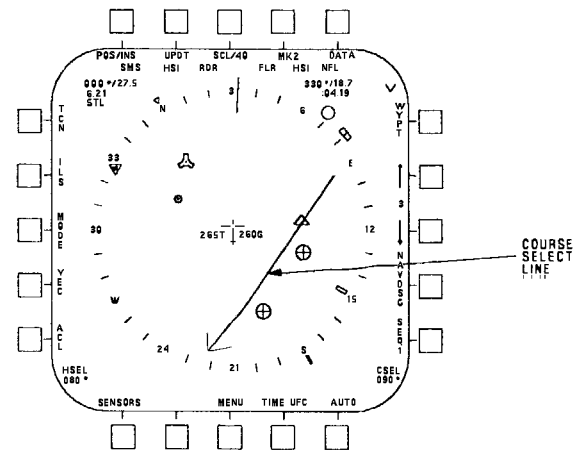
HSI DISPLAY - POST LAUNCH
WITH TOO CONTROL SEGMENT (DESIGNATION AT LAUNCH)



HSI DISPLAY - POST LAUNCH
WITH PREPLANNED CONTROL SEGMENT



HSI DISPLAY - POST LAUNCH
WITH MANUAL CONTROL SEGMENT



HSI DISPLAY - POST LAUNCH
WITH COURSELINE

Figure 1.

Figure 1. AGM-84 SLAM Avionic Interface Schematic (Sheet 28)

LEGEND			
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST: A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000. B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY. C. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.	<div>12</div> <div>13</div> <div>14</div> <div>15</div> <div>16</div> <div>17</div> <div>18</div>	<div>26</div> <div>27</div> <div>28</div> <div>29</div> <div>30</div> <div>31</div> <div>32</div>
<div>3</div>	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.		
<div>4</div>	LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130-500, WP006 00.		
<div>5</div>	RADAR SYSTEM INTERCONNECT SCHEMATIC, A1-F18AC-742-500, WP005 00 OR A1-F18AH-742-500, WP005 00.	<div>19</div>	
<div>6</div>	MASTER ARM SCHEMATIC, WP017 00.	<div>20</div>	<div>33</div>
<div>7</div>	COCKPIT WARNING ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.	<div>21</div>	
<div>8</div>	SIMULATION MODE SELECT SCHEMATIC, WP022 00.	<div>22</div>	<div>34</div>
<div>9</div>	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	<div>23</div>	<div>35</div>
<div>10</div>	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.	<div>24</div>	<div>36</div>
<div>11</div>	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.	<div>25</div>	
		STORES INVENTORY SCHEMATIC, WP015 00.	APPLICABLE GUIDED WEAPON CONTROL-MONITOR SET SCHEMATIC, GUIDED WEAPON CONTROL-MONITOR SET AN/AWW-13 AVIONIC INTERFACE SCHEMATIC, WP068 00.
		LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.	AUTOPILOT FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP030 00.
		SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.	DELETED.
		BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.	GUIDED WEAPON CONTROL-MONITOR SET AN/AWW-13 AVIONICS INTERFACE SCHEMATIC, WP068 00.
		WEAPON STATION 2, 3, 7, 8 AGM-84 SCHEMATIC, WP054 00.	DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
		WEAPON SELECT SCHEMATIC, WP016 00.	SENSOR CONTROL SWITCH AND THROTTLE DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.
		APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAYS TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION, TROUBLESHOOT USING DISPLAYS TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.
		FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODES, REFER TO A1-F18AC-FIM-100.	DIGITAL DISPLAY INDICATOR FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP006 00.
		CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.	AFTER F/A-18 AFC 231.
		APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.	
		AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.	
		MEMORY UNIT INITIALIZATION SCHEMATIC, A1-F18AE-580-500, WP 009 03.	

Figure 1.

Figure 1. AGM-84 Avionic Interface Schematic (Sheet 29)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-84H SLAM ER AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

**EFFECTIVITY: WITH DIGITAL DATA COMPUTER CONFIG/IDENT 13C AND UP
(A1-F18AC-SCM-000) AND 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Reference Material

None

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Record of Applicable Technical Directives

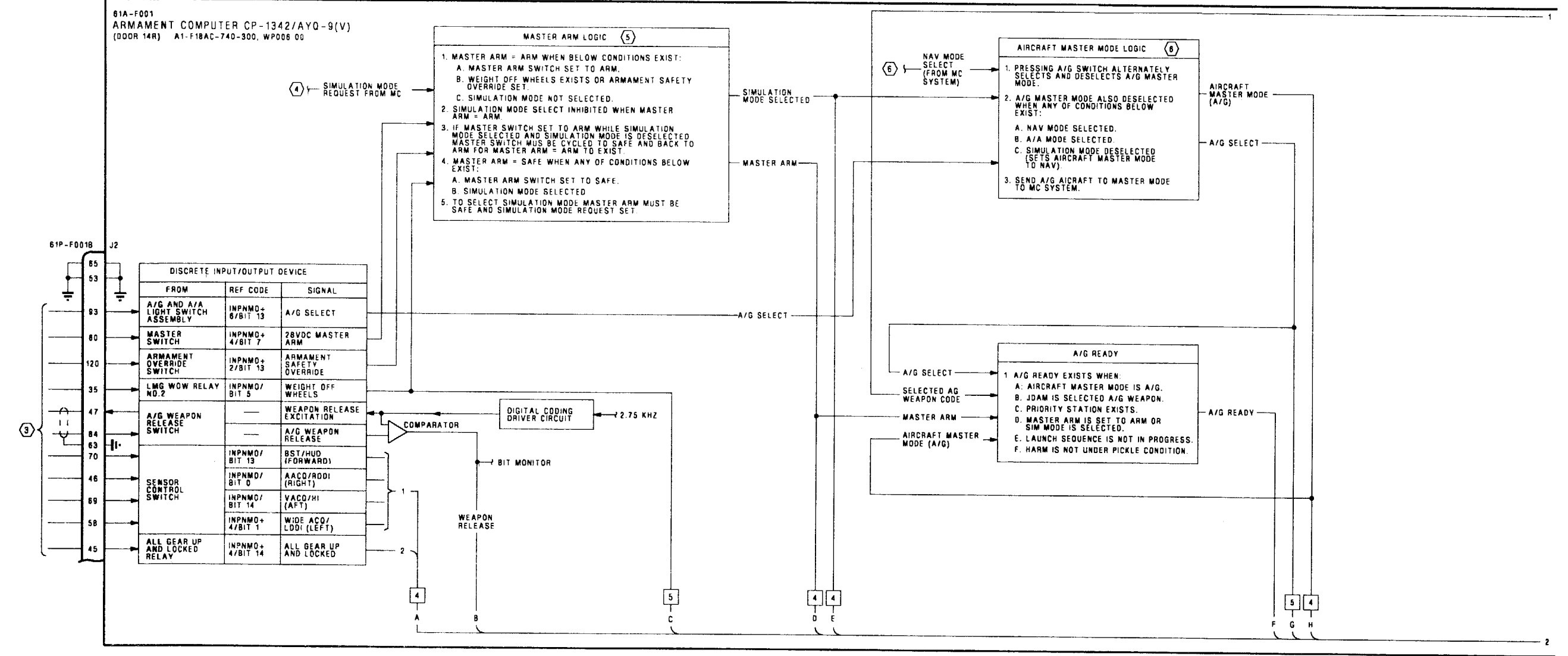
Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. INTRODUCTION.

2. The schematic in this work package shows the aircraft related system functions for the AGM-84H

SLAM ER. The schematic supports weapon station
2, 3, 7, 8 1760 stores schematic WP036 00.

3. Component locations are shown in WP008 00.



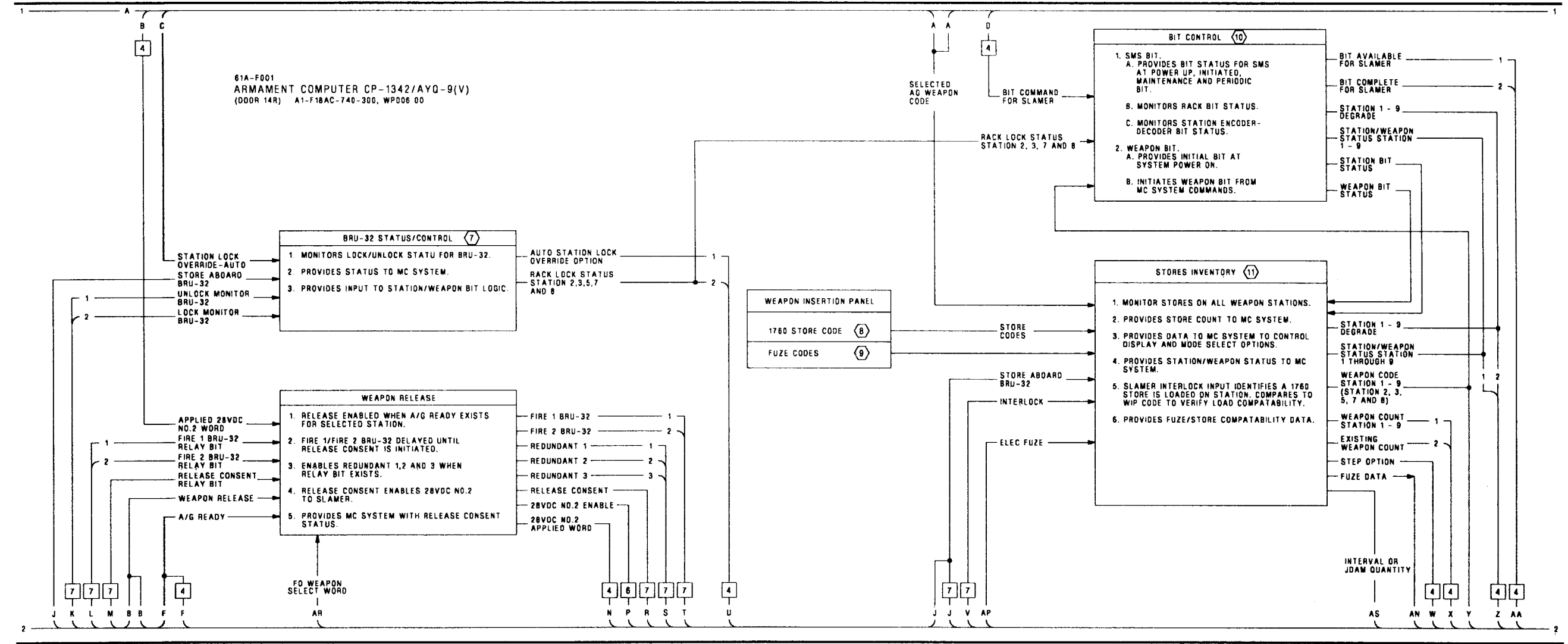


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 2)

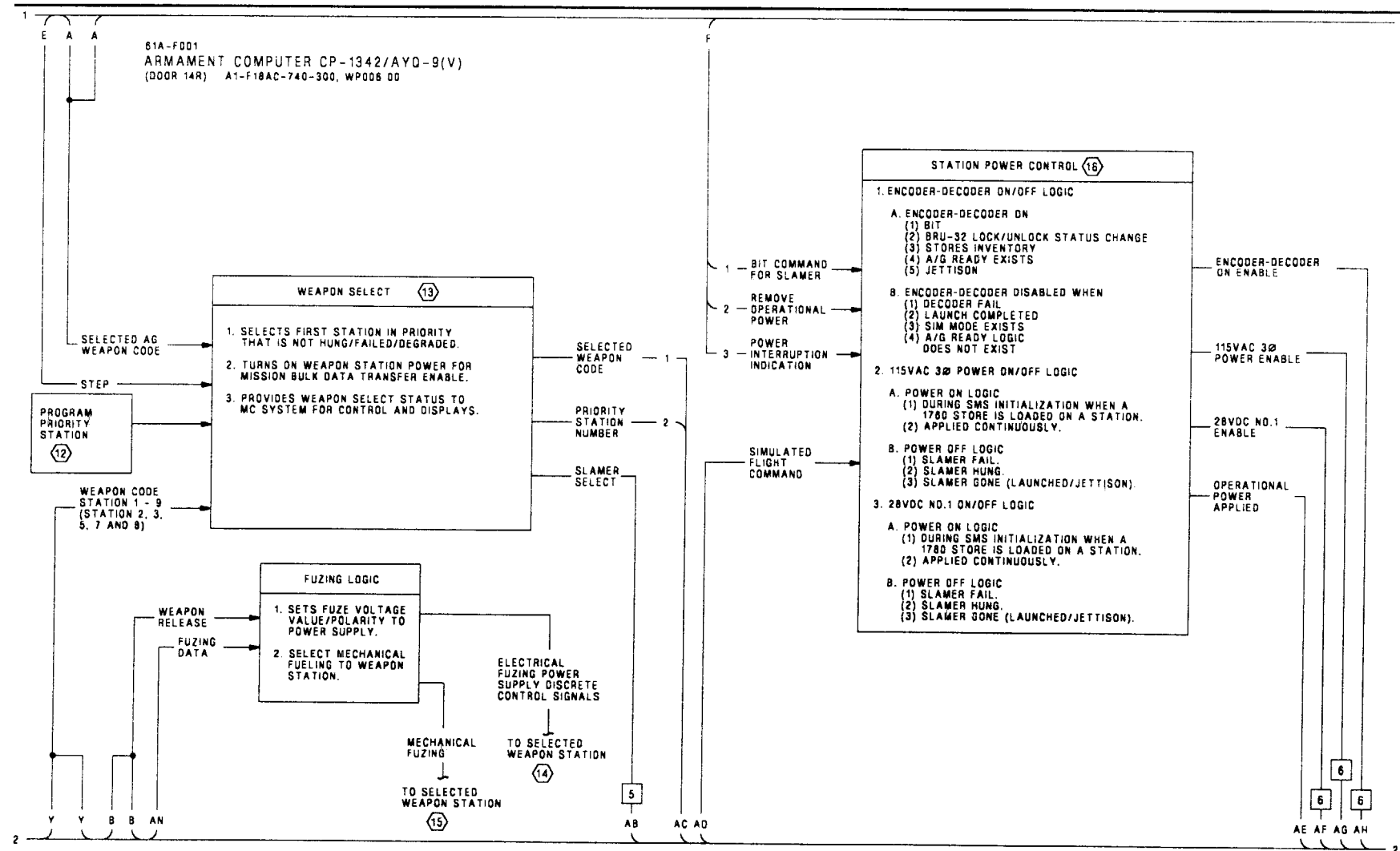


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 3)

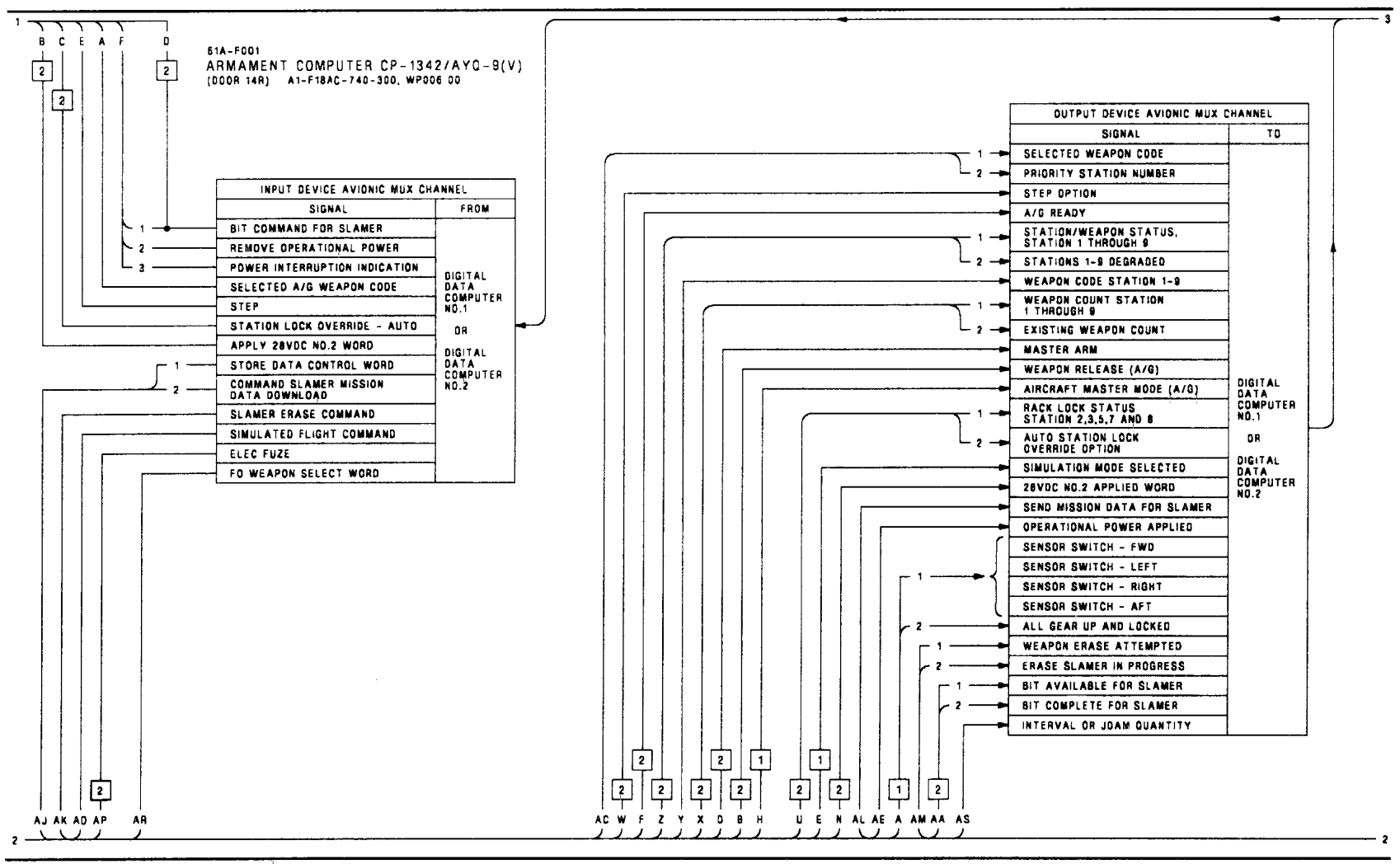


Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 4)

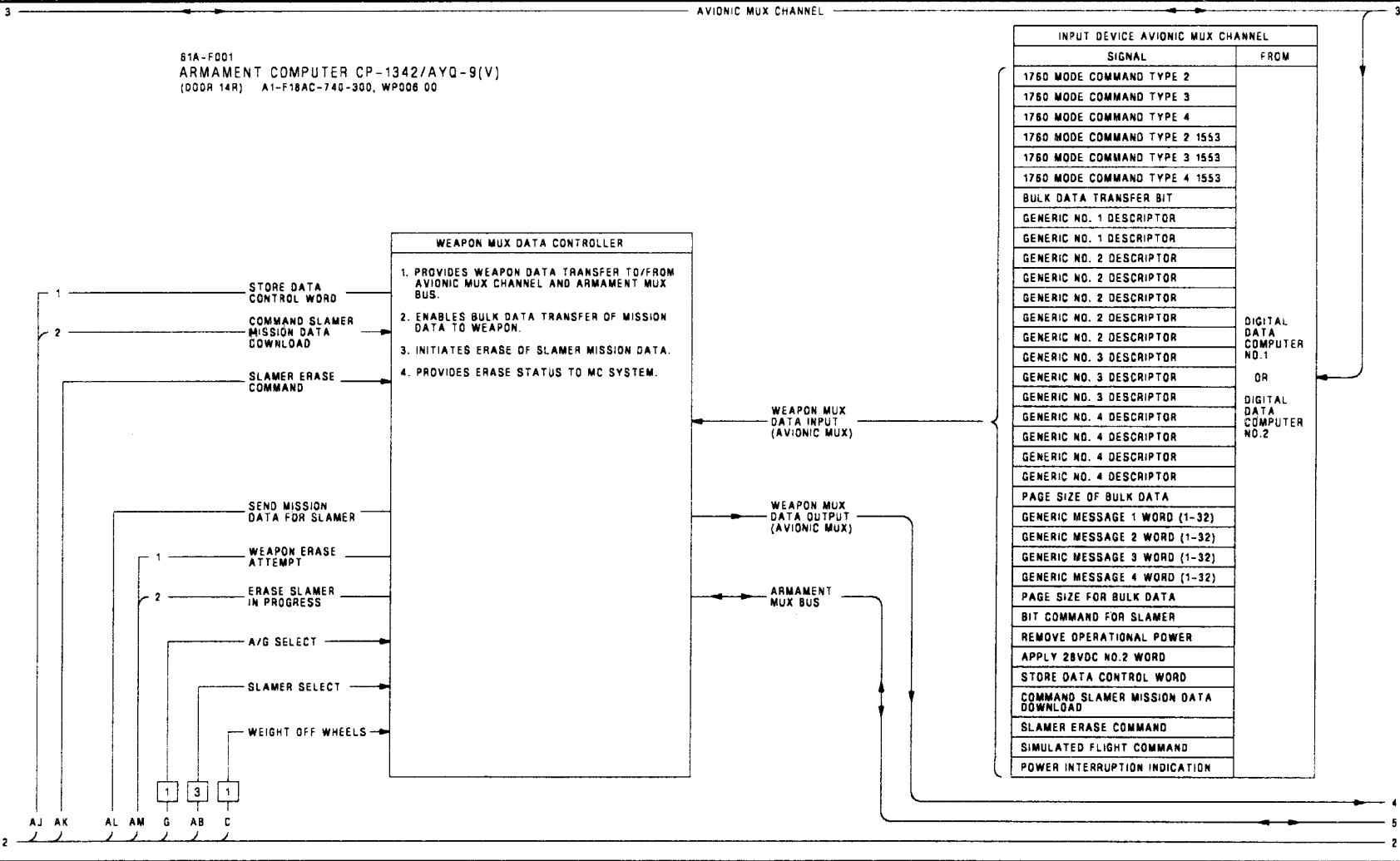


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 5)

Figure 1.

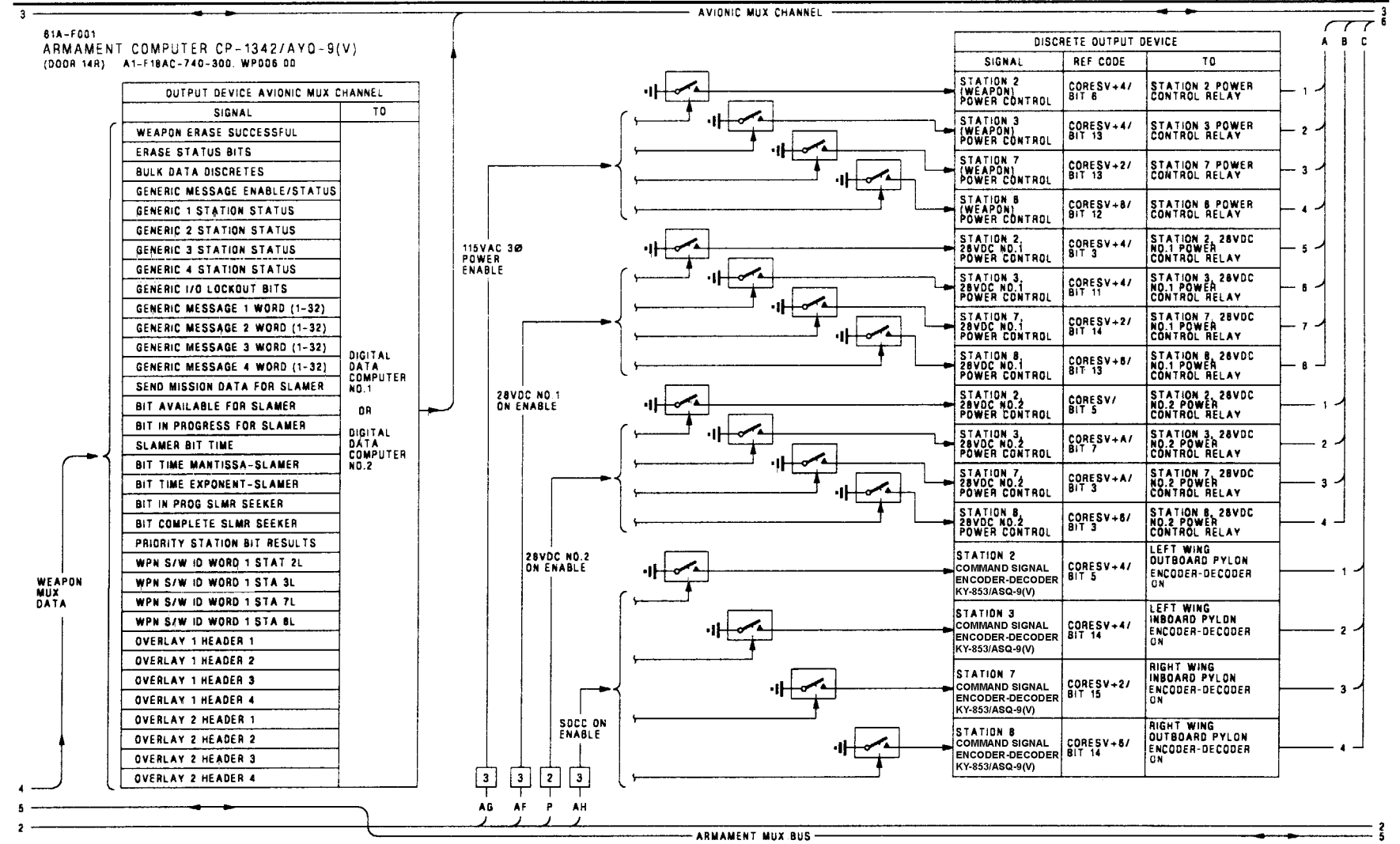


Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 6)

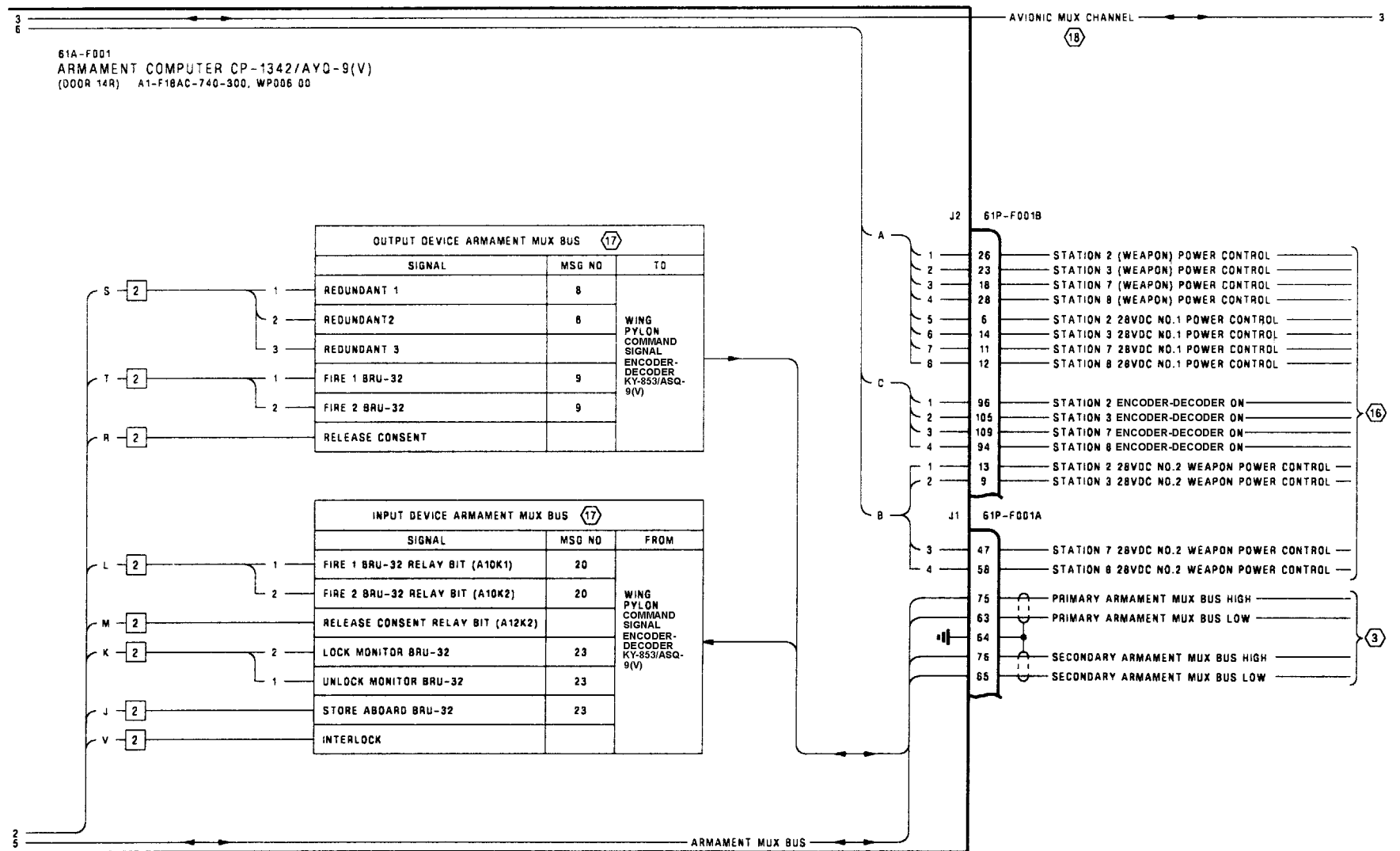


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 7)

Figure 1.

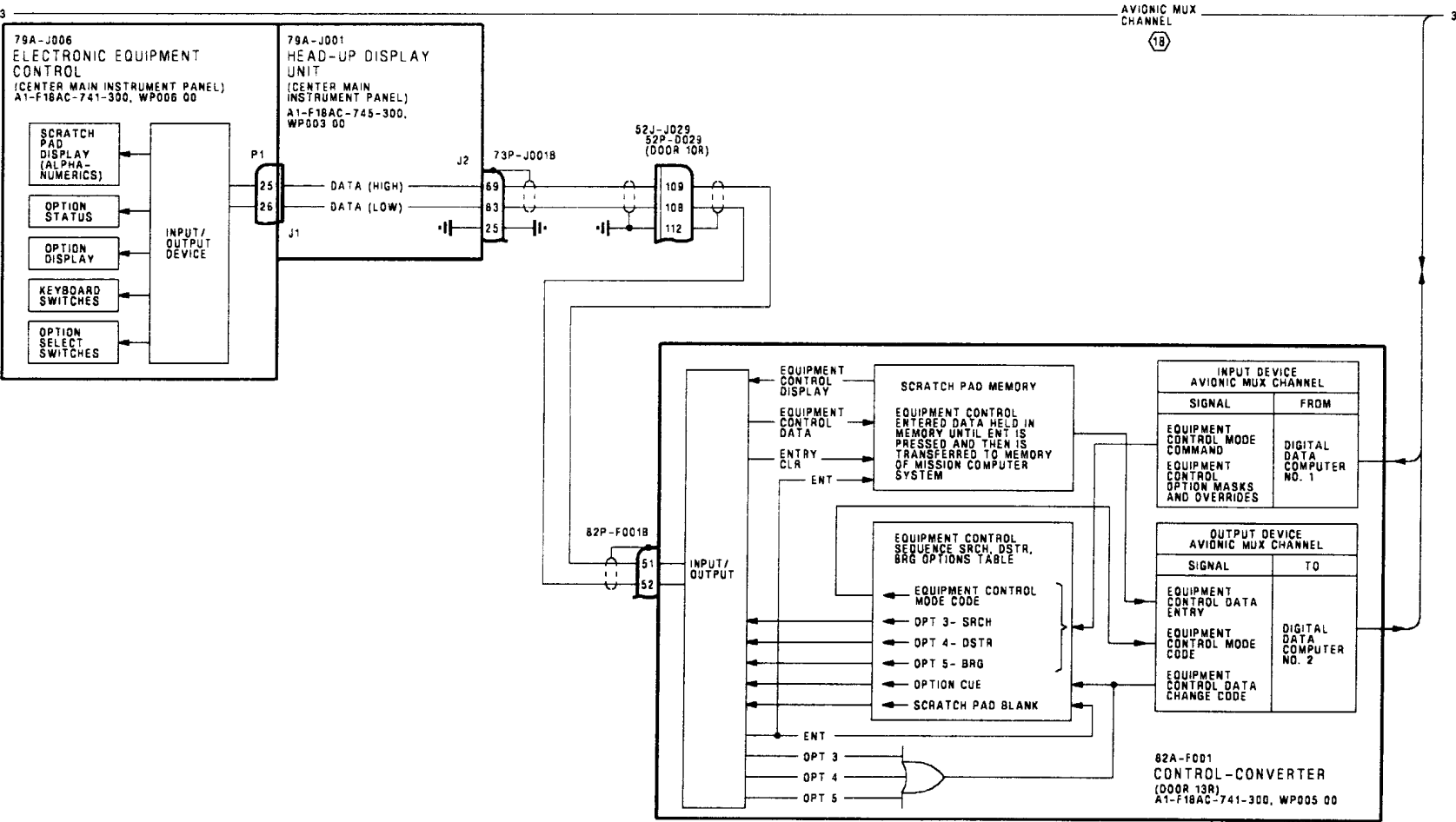


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 8)

54040108
Figure 1.

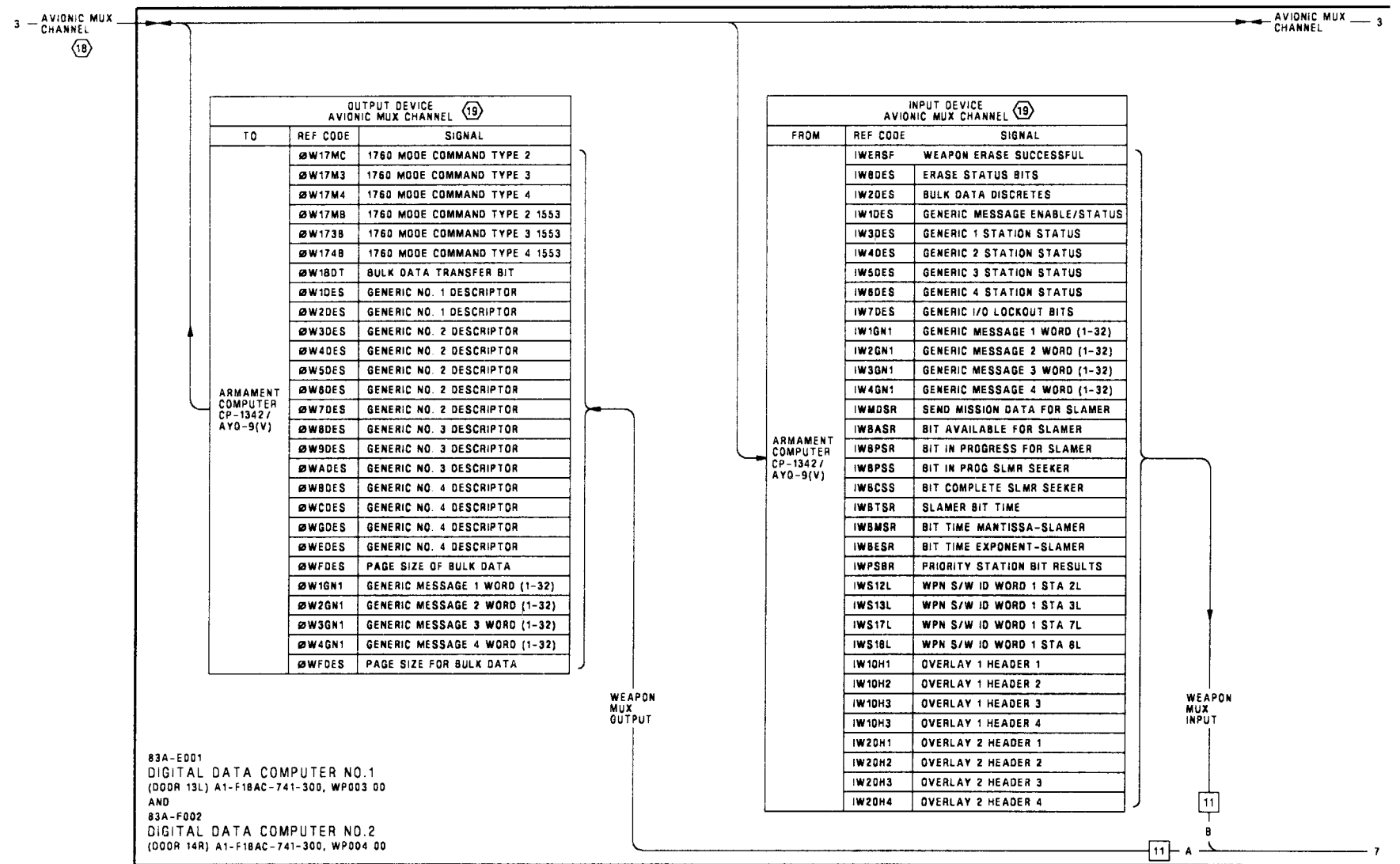


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 9)

Figure 1.

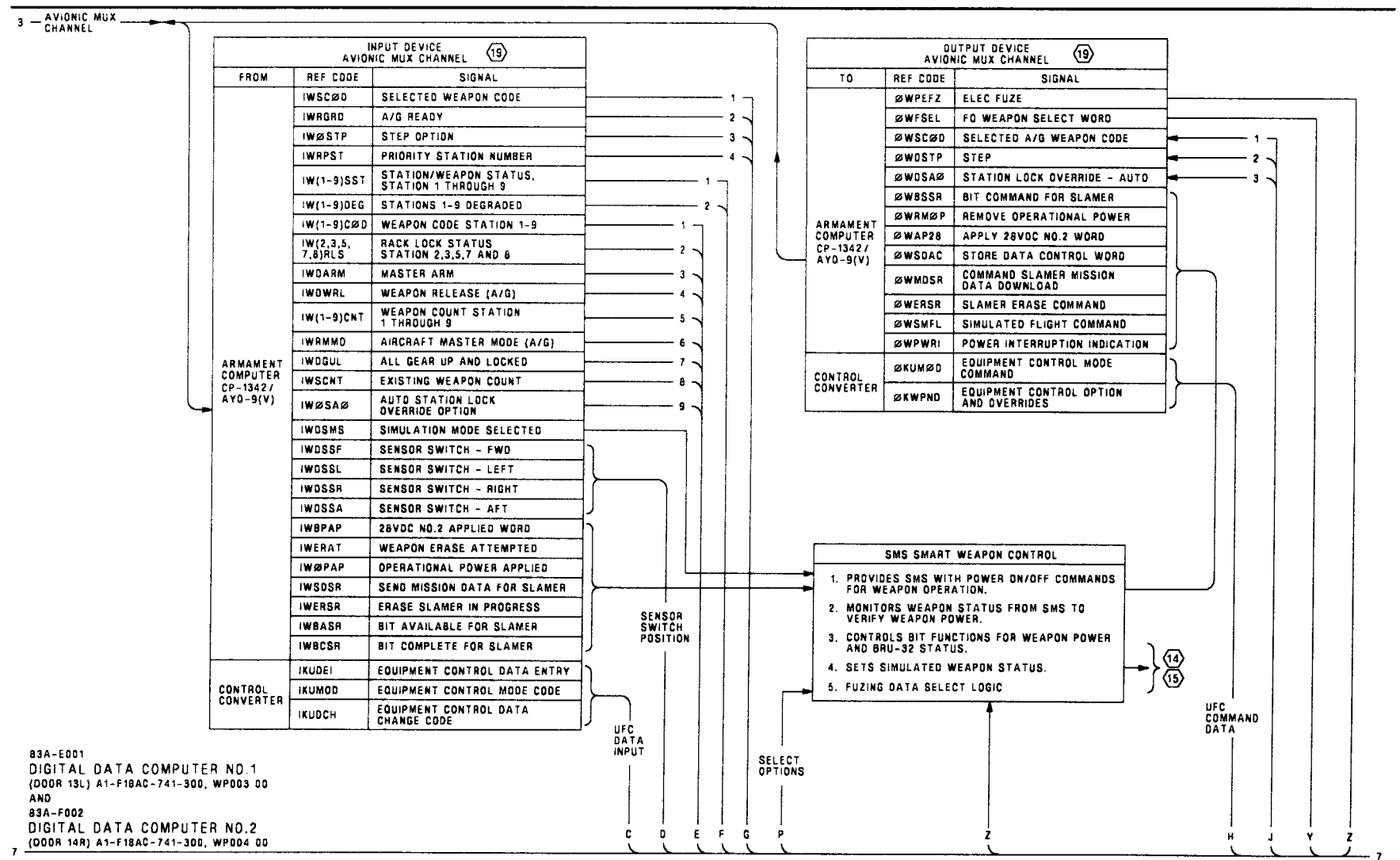


Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 10)

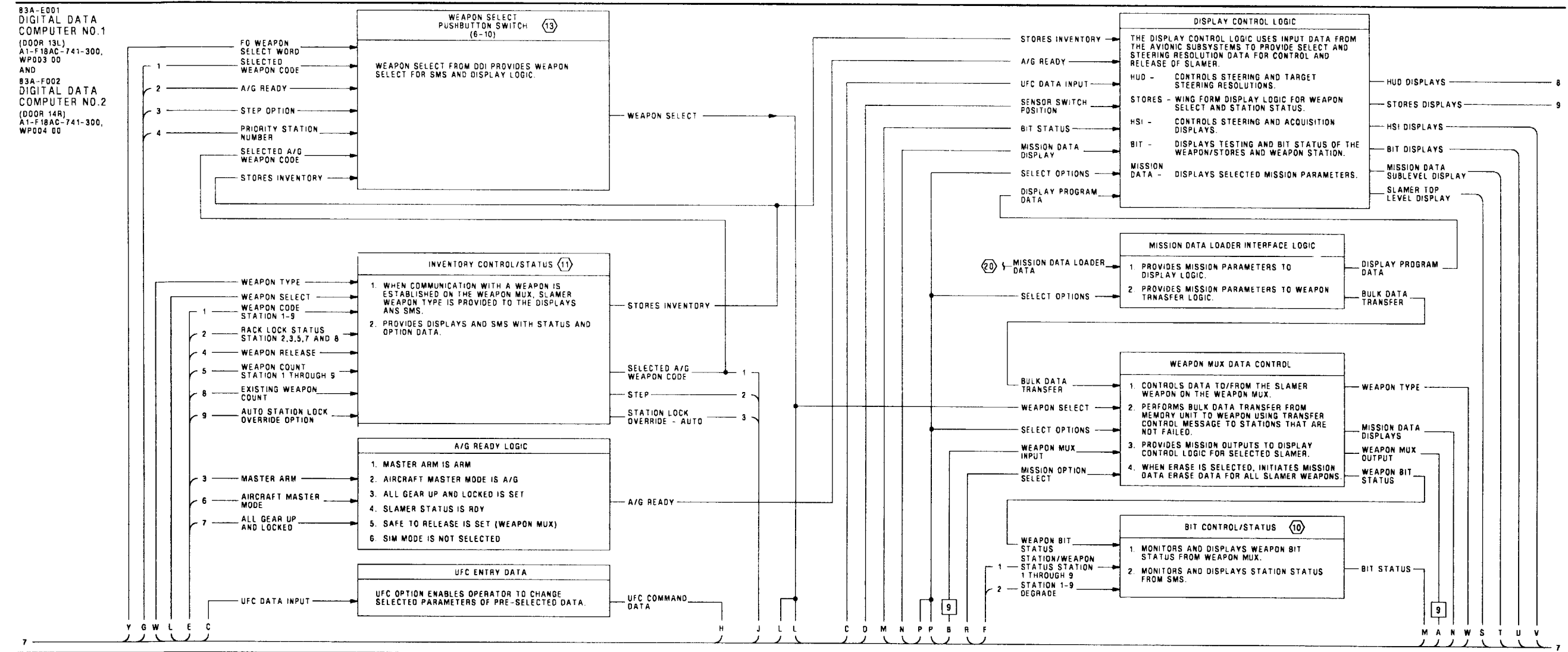


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 11)

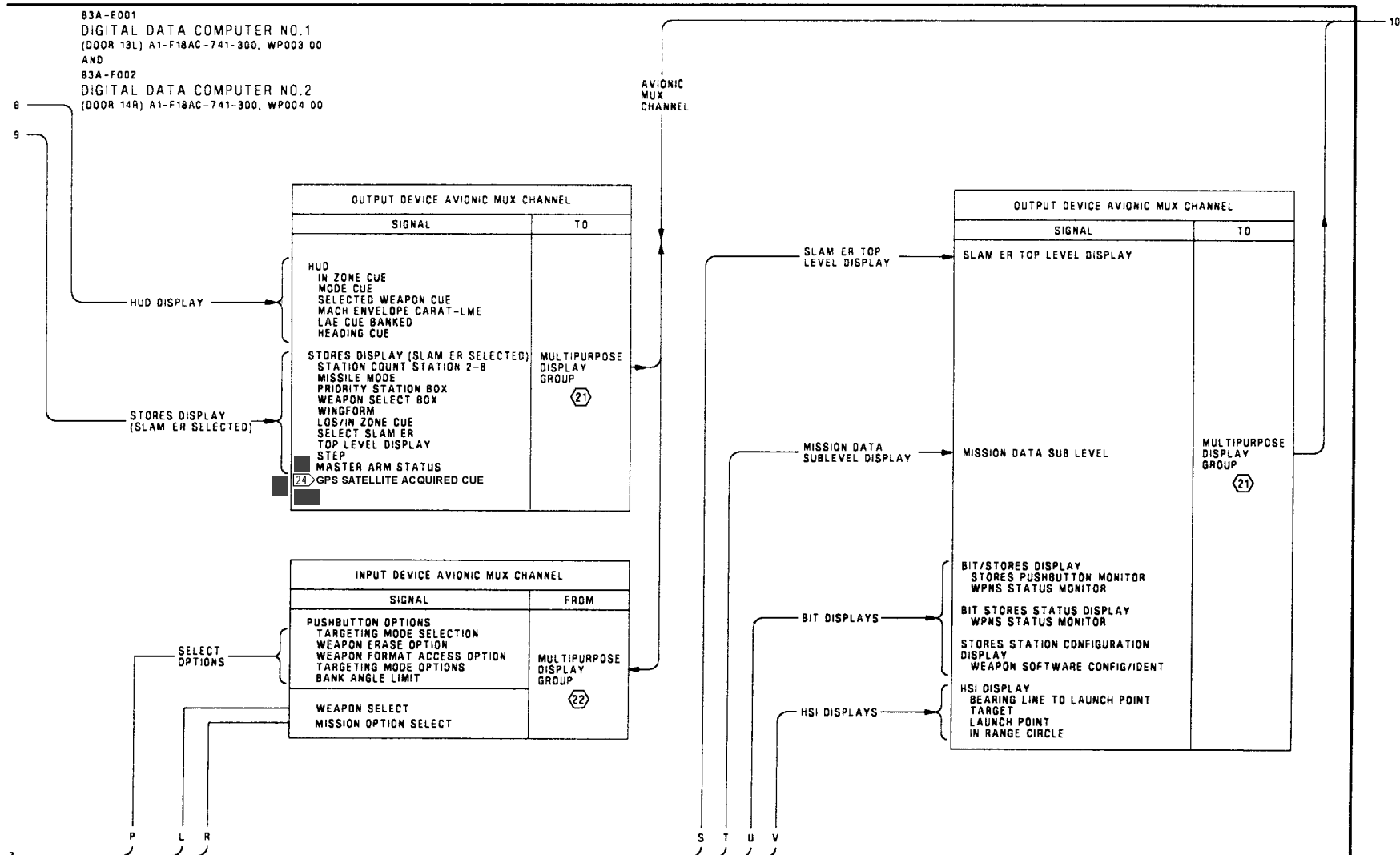


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 12)

Figure 1.

54040112

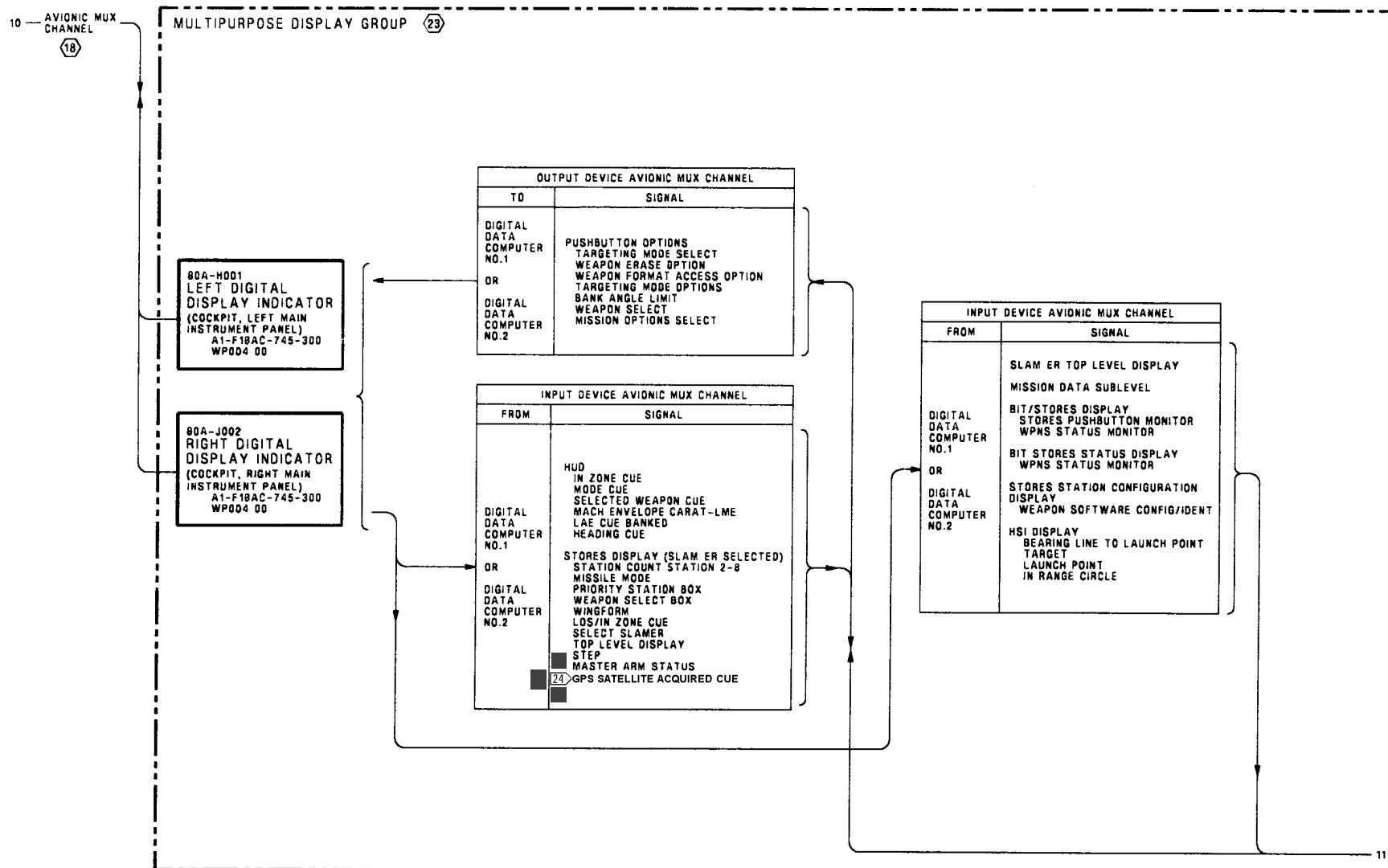


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 13)

Figure 1.

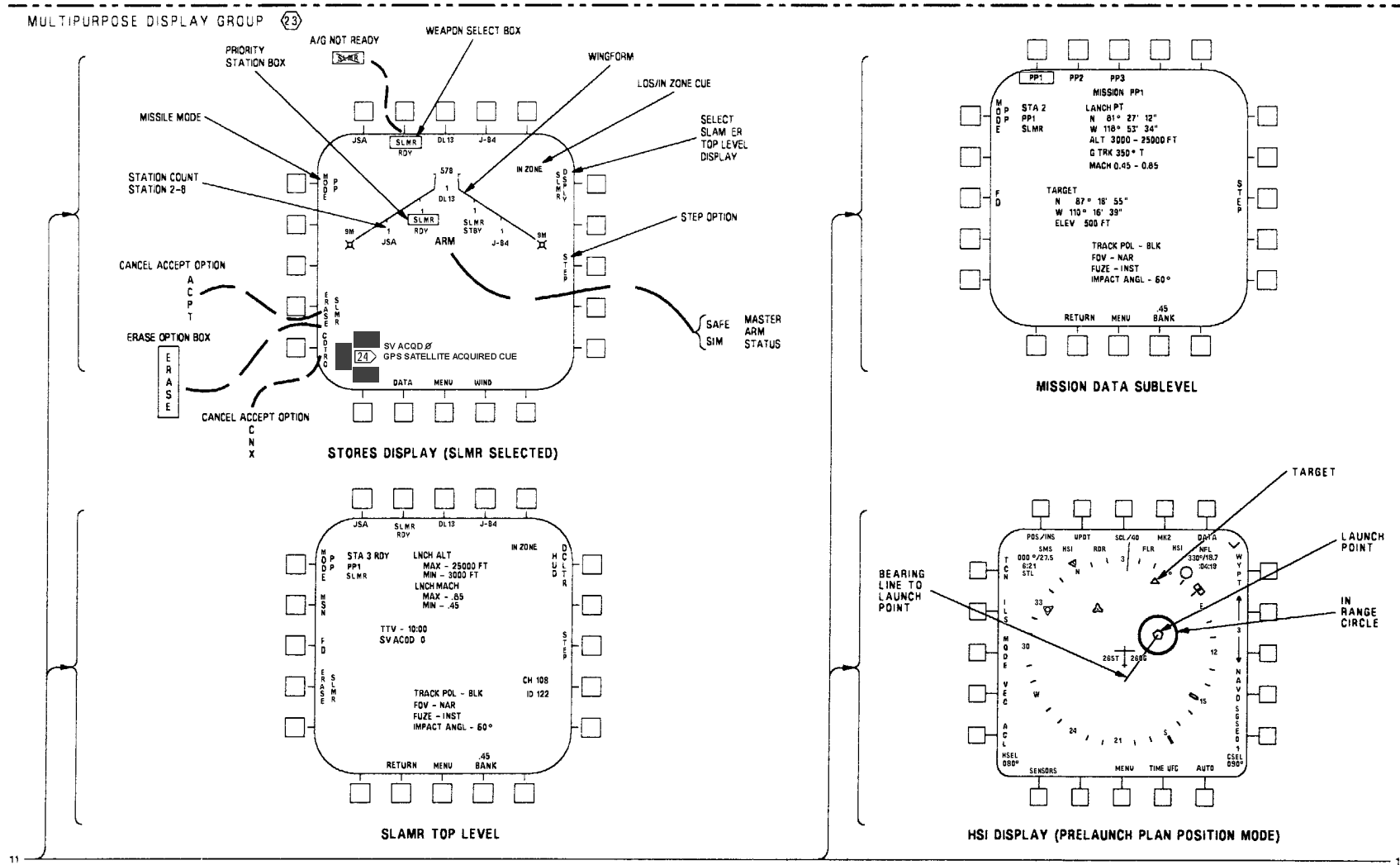


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 14)

54040114
Figure 1.

MULTIPURPOSE DISPLAY GROUP 23

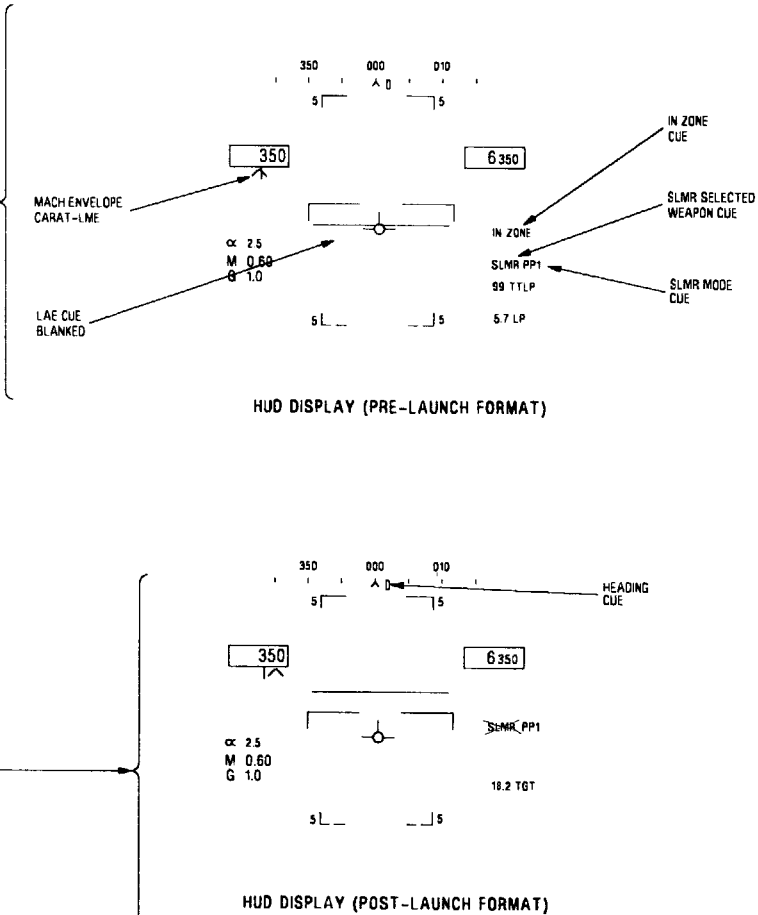
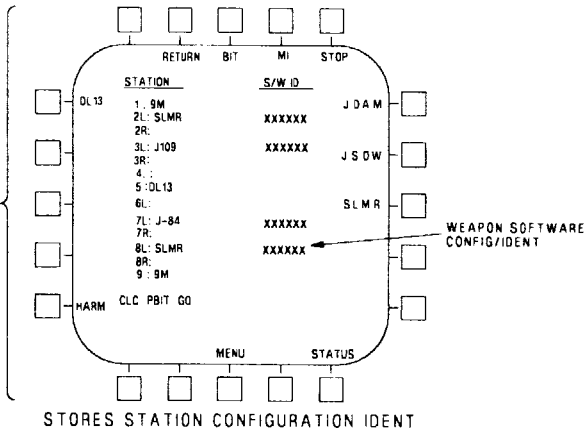
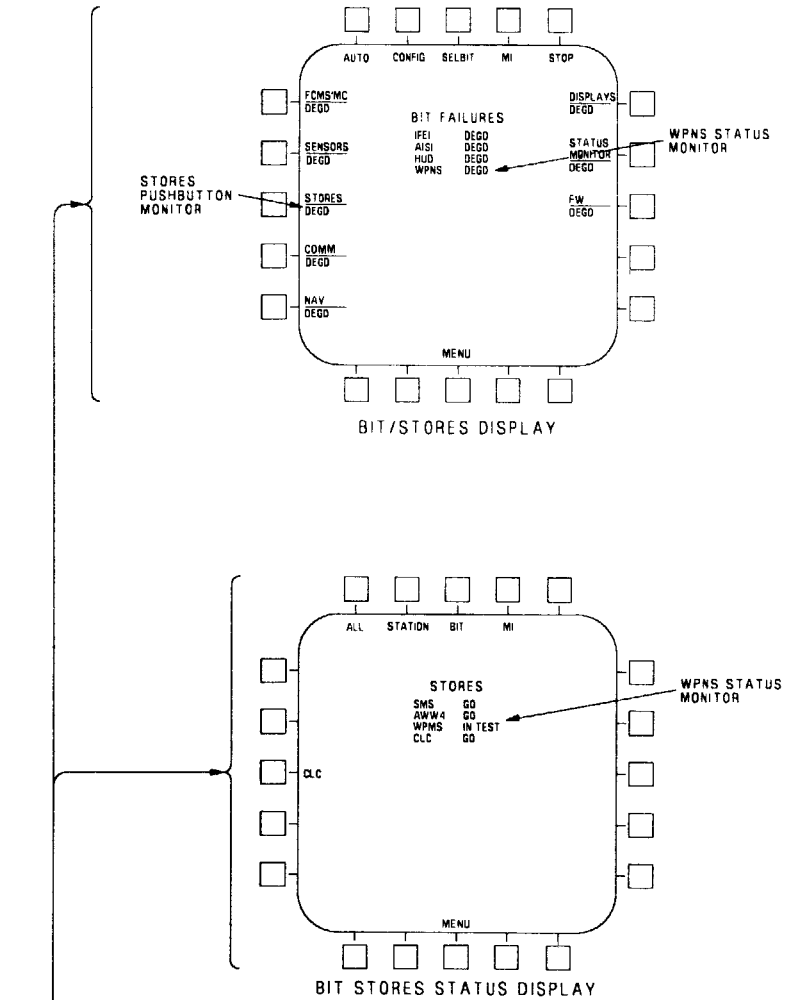


Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 15)

LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST:	
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A(-)-WDM-000.	13
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY Ⓢ) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	14
	C. WHEN TESTING CONTINUITY, TEST FOR:	15
	(1) SHORTS TO GROUND.	16
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	17
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	18
	(4) SHIELD CONTINUITY.	19
3	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	20
4	SIMULATION MODE SELECT SCHEMATIC, WP022 00.	21
5	MASTER ARM SCHEMATIC, WP017 00.	22
6	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	
7	LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.	
8	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.	23
9	FUZE TYPES AND ARMAMENT COMPUTER FUZE CODES, WP009 00.	24
10	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.	
11	STORES INVENTORY SCHEMATIC, WP015 00.	
12	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.	
	WEAPON SELECT SCHEMATIC, WP016 00.	
	ELECTRICAL FUZING SCHEMATIC, WP071 00.	
	MECHANICAL FUZING SCHEMATIC, WP 072 00.	
	WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.	
	ARMAMENT MUX BUS DATA, WP010 00.	
	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	
	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.	
	MISSION DATA LOADER INITIALIZATION FUNCTIONAL SCHEMATIC, A1-F18AC-580-500, WP009 00.	
	DISPLAY REF CODES ARE NOT SHOWN. TROUBLESHOOT AS LISTED BELOW:	
	1. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR.	
	2. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00.	
	3. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	
	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON SWITCH ACTION DOES NOT RESULT IN NORMAL INDICATION, TROUBLESHOOT AS LISTED BELOW, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	
	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.	
	AFTER F/A-18 AFC 231.	

Figure 1.

Figure 1. AGM-84H SLAM ER Avionic Interface Schematic (Sheet 16)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 AGM-88 HARM

STORES MANAGEMENT SYSTEM

Reference Material

None

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Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic, Figure 1	2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows system function for the AGM-88 HARM when loaded on weapon station 2, 3, 7 and 8.
3. The location of the components on this schematic can be seen in WP008 00.



Figure 1.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. PYLON DISCONNECT AND DOOR LOCATIONS:
 - STATION 2 52J-U062 (DOOR 61L).
 - STATION 3 52J-U063 (DOOR 60L).
 - STATION 7 52J-V067 (DOOR 60R).
 - STATION 8 52J-V068 (DOOR 61R).
5. AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP056 00.
6. APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC:
 - WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
 - WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.
 - WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.
 - WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
7. ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
8. ARMAMENT MUX BUS DATA, WP010 00.

Figure 1. Weapon Station 2, 3, 7, 8 AGM-88 HARM Schematic (Sheet 2)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER
INTERFACE

STORES MANAGEMENT SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.
2. The schematic in this work package shows system function for the HARM Armament Computer/Command Launch Computer. This schematic supplements the schematics listed below:

a. WP055 00 Weapon Station 2, 3, 7 and 8 AGM-88 HARM Schematic.

b. WP057 00 AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic.

c. WP058 00 AGM-88 HARM Self Protect (SP) Mode Interface Schematic.

d. WP059 00 AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic.
3. Component locations are shown in WP008 00.

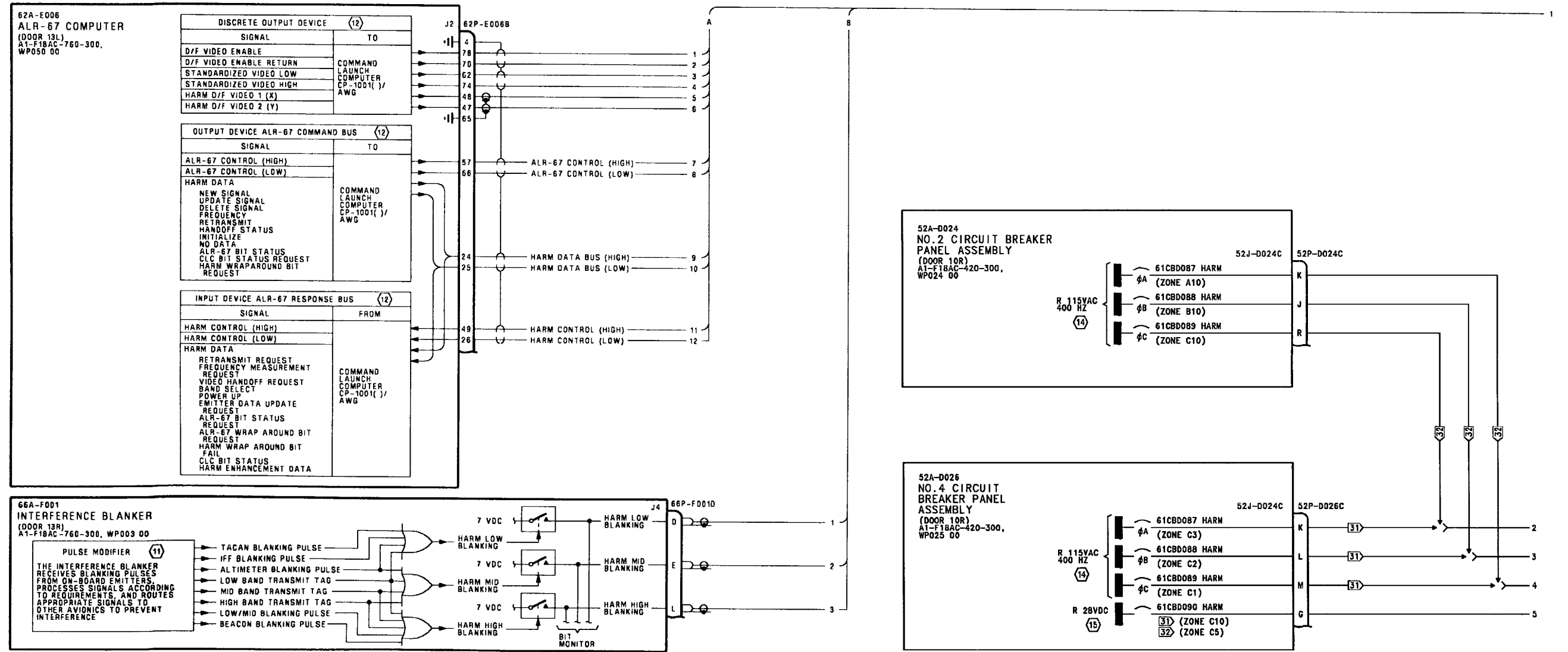


Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 1)



Figure 1.

61A-F010
COMMAND LAUNCH COMPUTER
CP-1001()/AWG
(DOOR 13R)
A1-F18AC-740-300,
WP010 00

6 — INTERRUPT
PENDING
7 — CPU CONTROL
8 — MEMORY
DATA OUT

INPUT DEVICE AVIONIC MUX	
SIGNAL	FROM
TOO MODE HANDOFF	DIGITAL DATA COMPUTER NO.1 AND DIGITAL DATA COMPUTER NO.2
HARM THREAT SEQUENCE	
SELF PROTECT PULLBACK OVERRIDE	
HARM LIMIT	
TOO SCAN	
HARM THREAT RESET	
HARM MODE	
(PRE-BRIEFED) PB LOFT ANGLE	
MISSILE YAW COMMAND	
(PRE-BRIEFED) PB DATA VALID	
TARGET CLASS	
MISSION SELECT	
TARGET NUMBER	
AIRCRAFT PITCH	
AIRCRAFT ROLL	
AIRCRAFT TRUE HEADING	
AIRCRAFT TRUE AIRSPEED	
ATTITUDE DATA VALID	
ACFT ALTITUDE	
RADAR PRF	
HARM DISPLAY COMMAND	
LAUNCH INTENT	
RACK ANGLE	
EMCON STATUS TO HARM	
MANUAL THREAT WORDS 1-32	
HARM WEAPON COUNT	
HARM PRIORITY STATION NUMBER	
EQUATION OF MOTION	
START/STOP FREQUENCY	

OUTPUT DEVICE AVIONIC MUX	
SIGNAL	TO
HARM LIMIT	DIGITAL DATA COMPUTER NO.1 AND DIGITAL DATA COMPUTER NO.2
SELF-PROTECT PULLBACK	
SELF-PROTECT PULLBACK OVERRIDE	
HARM MODE	
TOO SCAN RESPONSE	
SYMBOL SET 01-15 HORIZONTAL POSITION	
SYMBOL SET 01-15 VERTICAL POSITION	
CLC CONFIG/IDENT	

OUTPUT DEVICE AVIONIC MUX	
SIGNAL	TO
SP MODE DEGRADED	DIGITAL DATA COMPUTER NO.1 AND DIGITAL DATA COMPUTER NO.2
TOO MODE DEGRADED	
PB MODE DEGRADED	
HARM THREAT VALID	
THREAT DATA VALID	
ELINT THREAT VALID	
MISSILE IN TRACK	
PB TARGET NUMBER VALID	
PRIORITY TARGET	
PRIORITY TARGET AZIMUTH	
PRIORITY TARGET ELEVATION	
TARGET OUT OF FIELD-OF-VIEW - LEFT	
TARGET OUT OF FIELD-OF-VIEW - RIGHT	
TOO DISPLAY RESPONSE	
DISPLAY CODE 1	
DISPLAY CODE 2	
DISPLAY CODE 1	
DISPLAY CODE 2	
SELECTED CLASS CHARACTERS 1 AND 2	
DETECTION DEGRADED	
HARM TARGET TYPE 00-83 DSPL CODE 1 AND 2	
HARM TARGET TYPE 00-83 DSPL CODE 3 AND 4	
HARM TARGET TYPE 15 DSPL CODE 1 AND 2	
HARM TARGET TYPE 30 DSPL CODE 1 AND 2	
HARM TARGET TYPE 45 DSPL CODE 1 AND 2	
HARM MISSILE INTERFACE DEGD STA 2	
HARM MISSILE INTERFACE DEGD STA 3	
HARM MISSILE INTERFACE DEGD STA 7	
HARM MISSILE INTERFACE DEGD STA 8	
HARM MISSILE STA 2 FAIL	
HARM MISSILE STA 3 FAIL	
HARM MISSILE STA 7 FAIL	
HARM MISSILE STA 8 FAIL	
MANUAL THREAT DATA WORDS 1-32	
EDM RESPONSE	
TRAINING CLASS HANDOFF	

OUTPUT DATA
BIT DATA
MISSILE DATA

Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 3)

Figure 1.

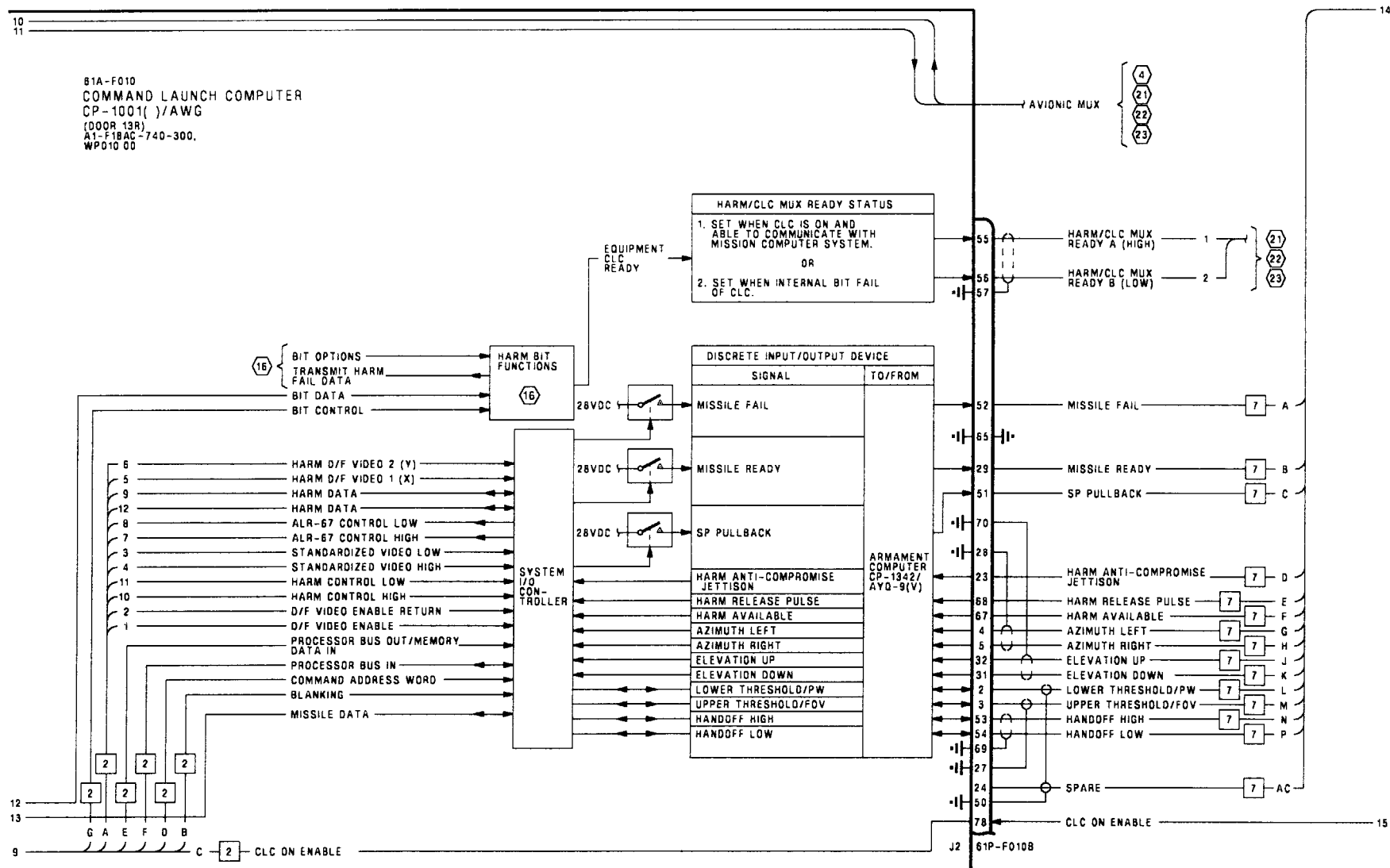


Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 4)

05600104
Figure 1.

14

14

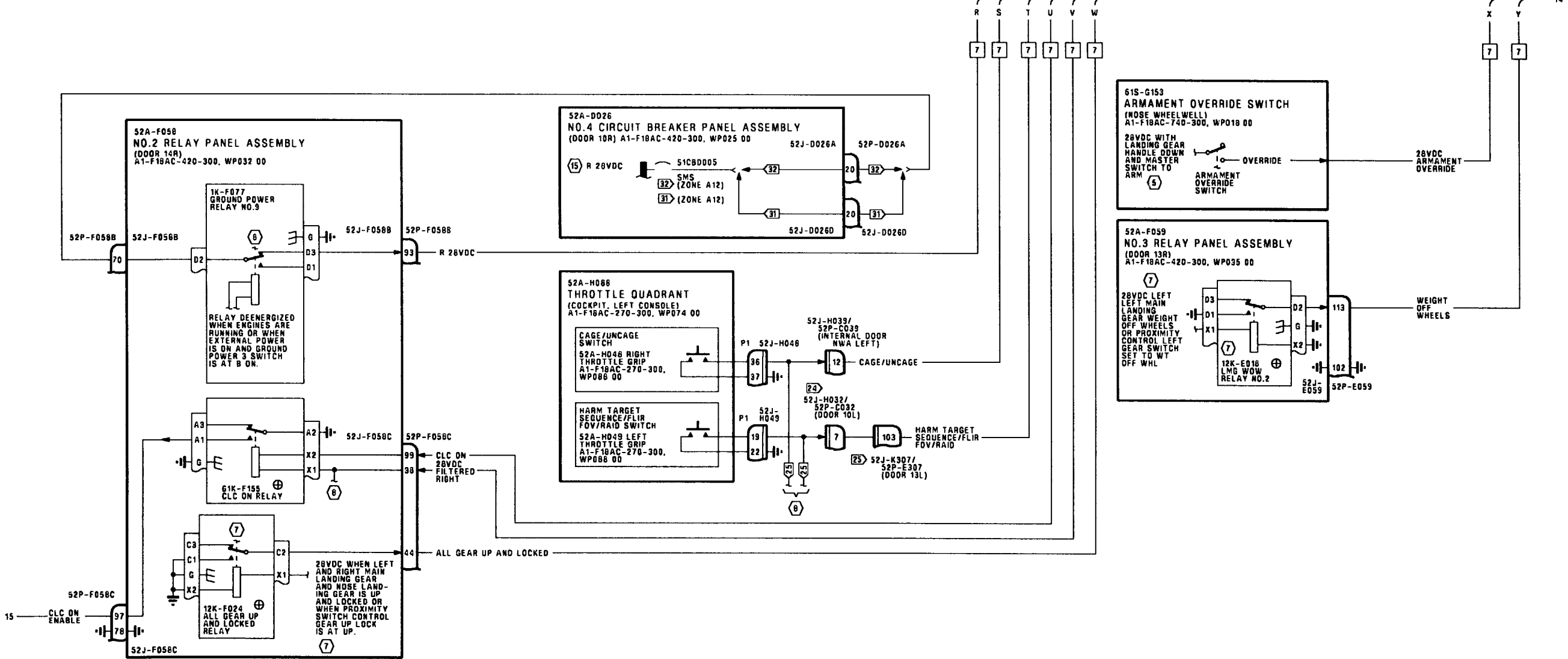


Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 5)

05600105
Figure 1.

14

14

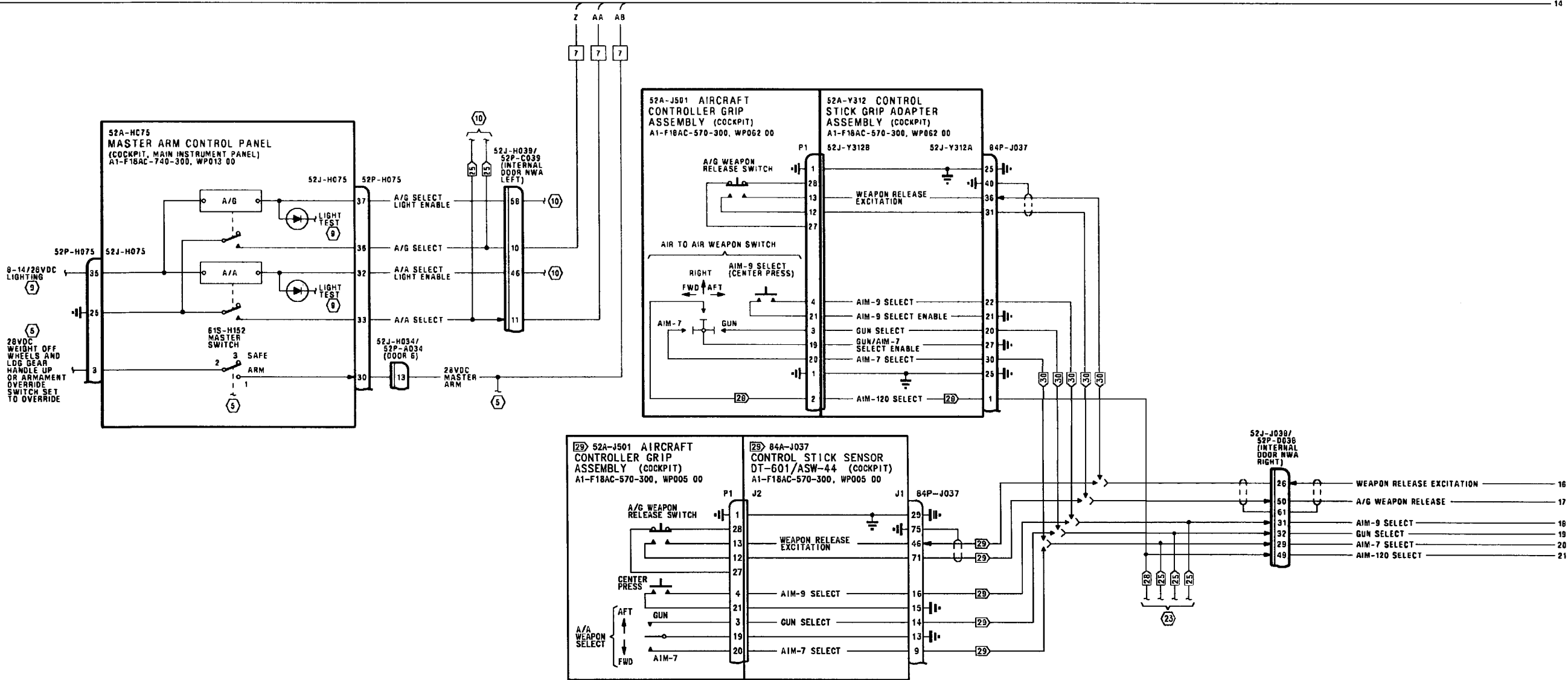


Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 6)

Figure 1.

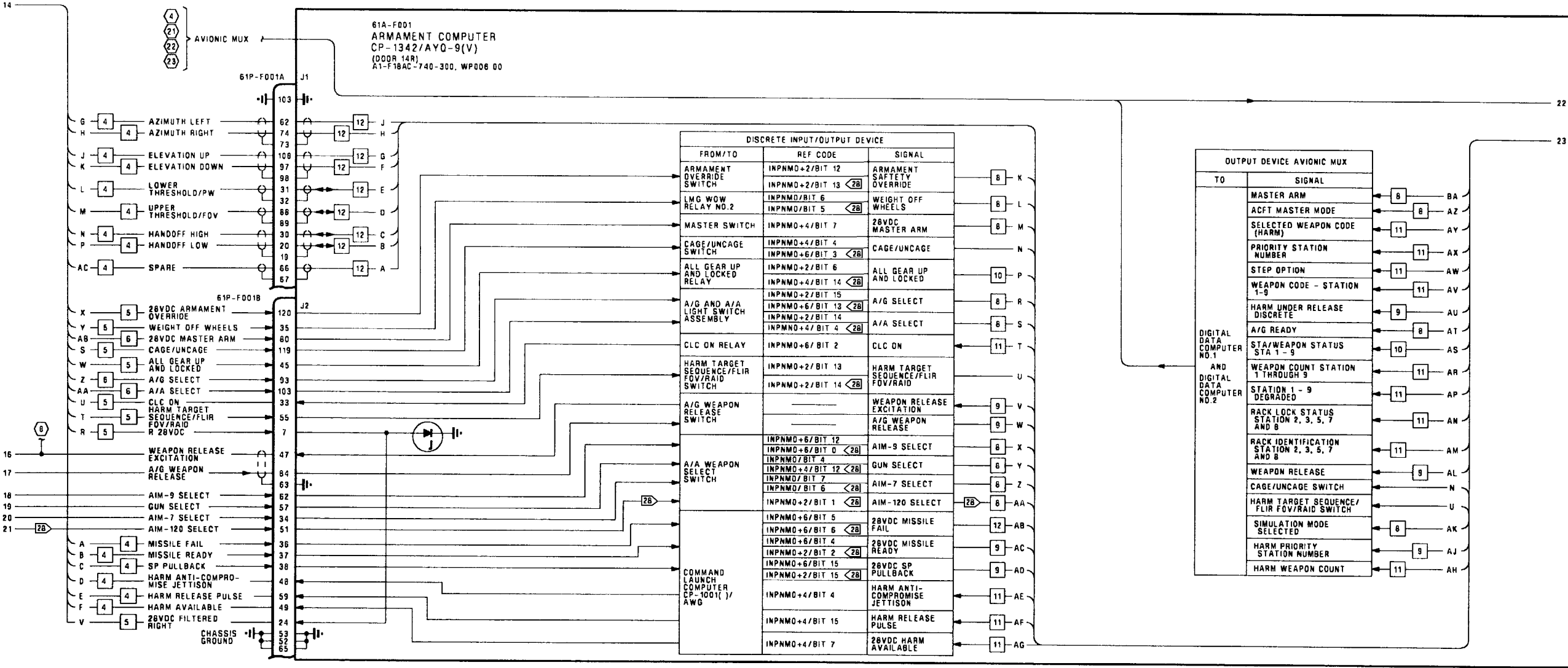
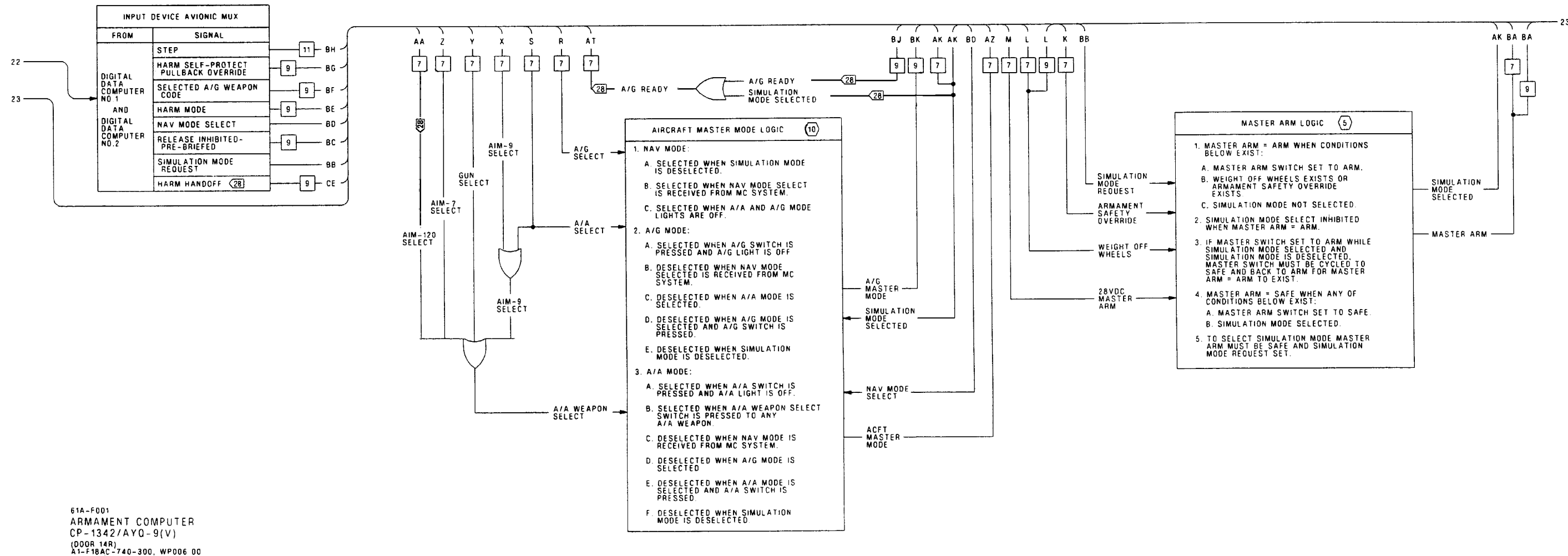


Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 7)

05600107
Figure 1.



61A-F001
ARMAMENT COMPUTER
CP-1342/AYQ-9(V)
(DOOR 14R)
A1-F18AC-740-300, WP006 00

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 8)

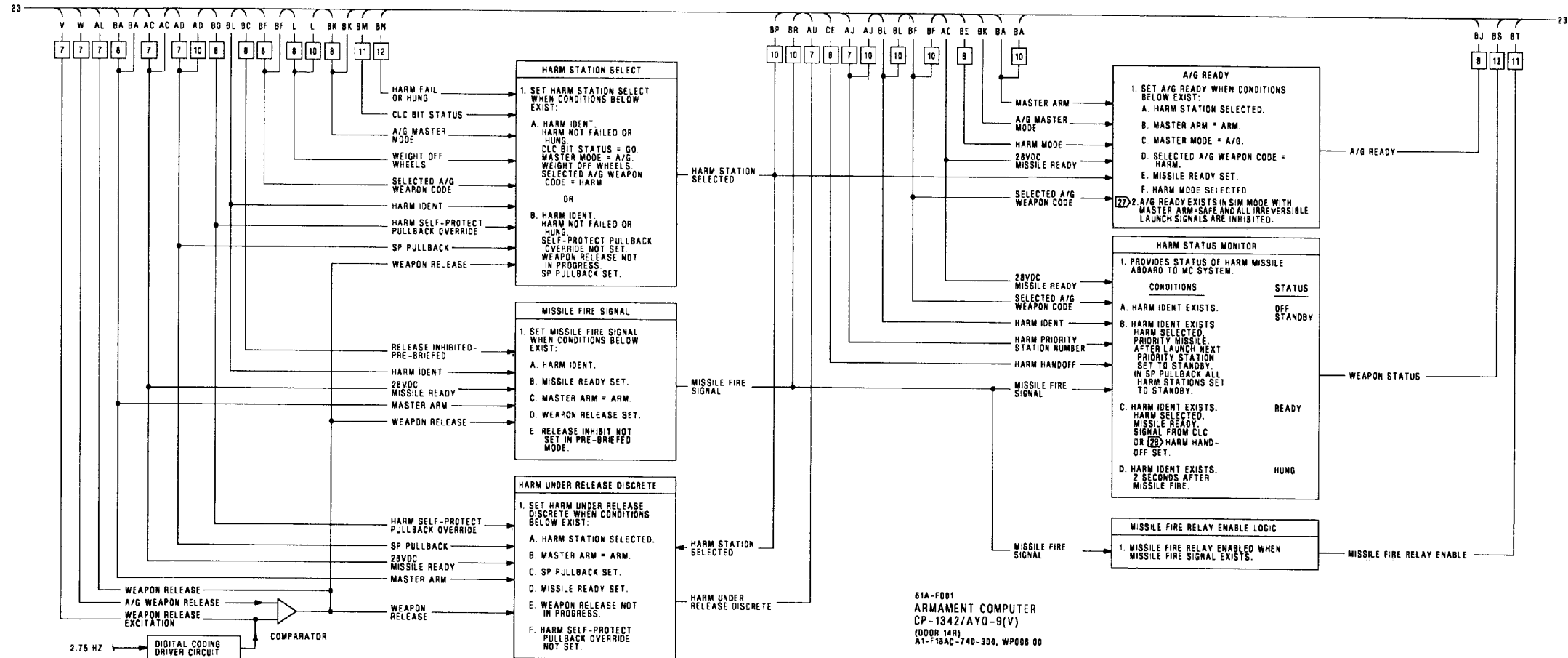
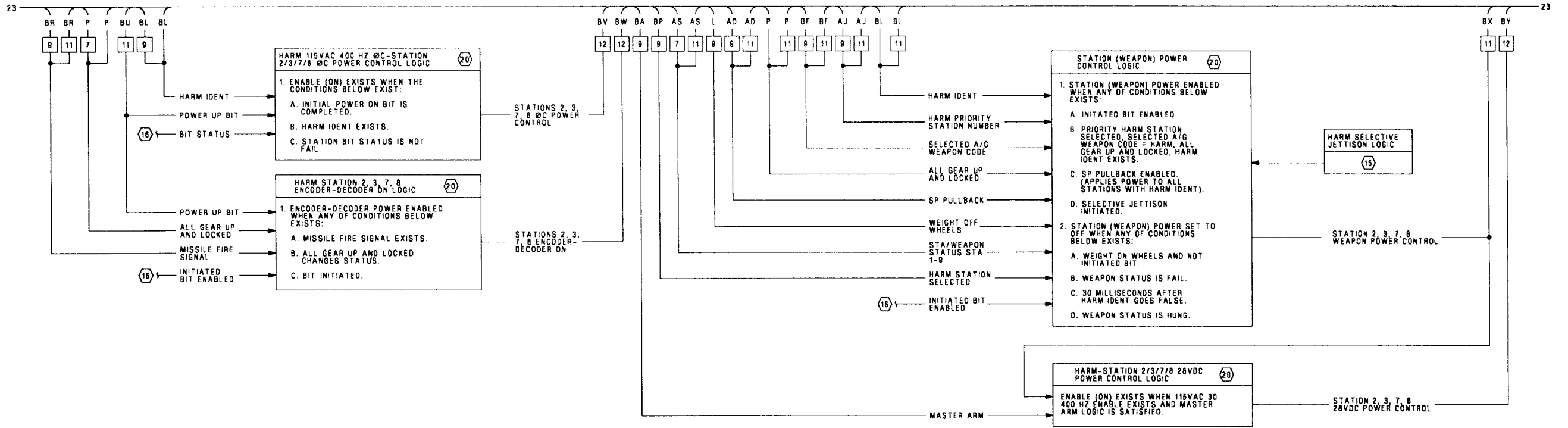


Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 9)



61A-F001
ARMAMENT COMPUTER
CP-1342/AYQ-9(V)
(000R 14R)
A1-F18AC-740-300, WP006 00

Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 10)

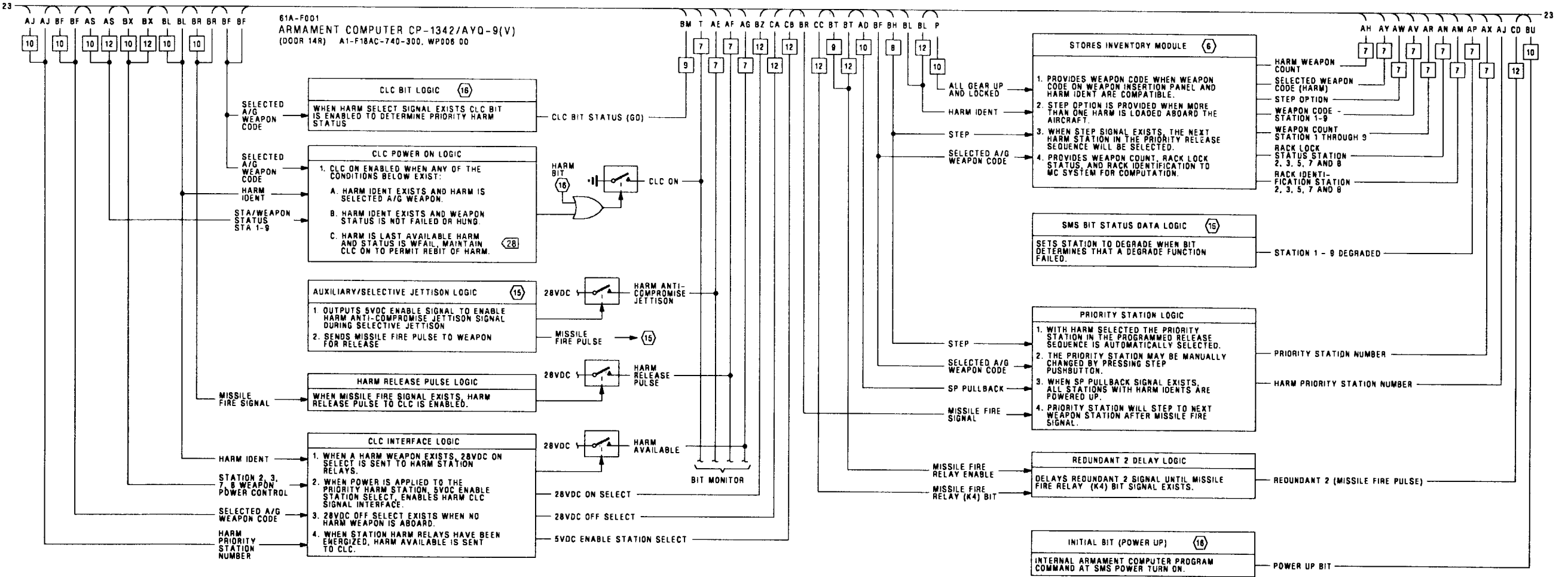


Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 11)

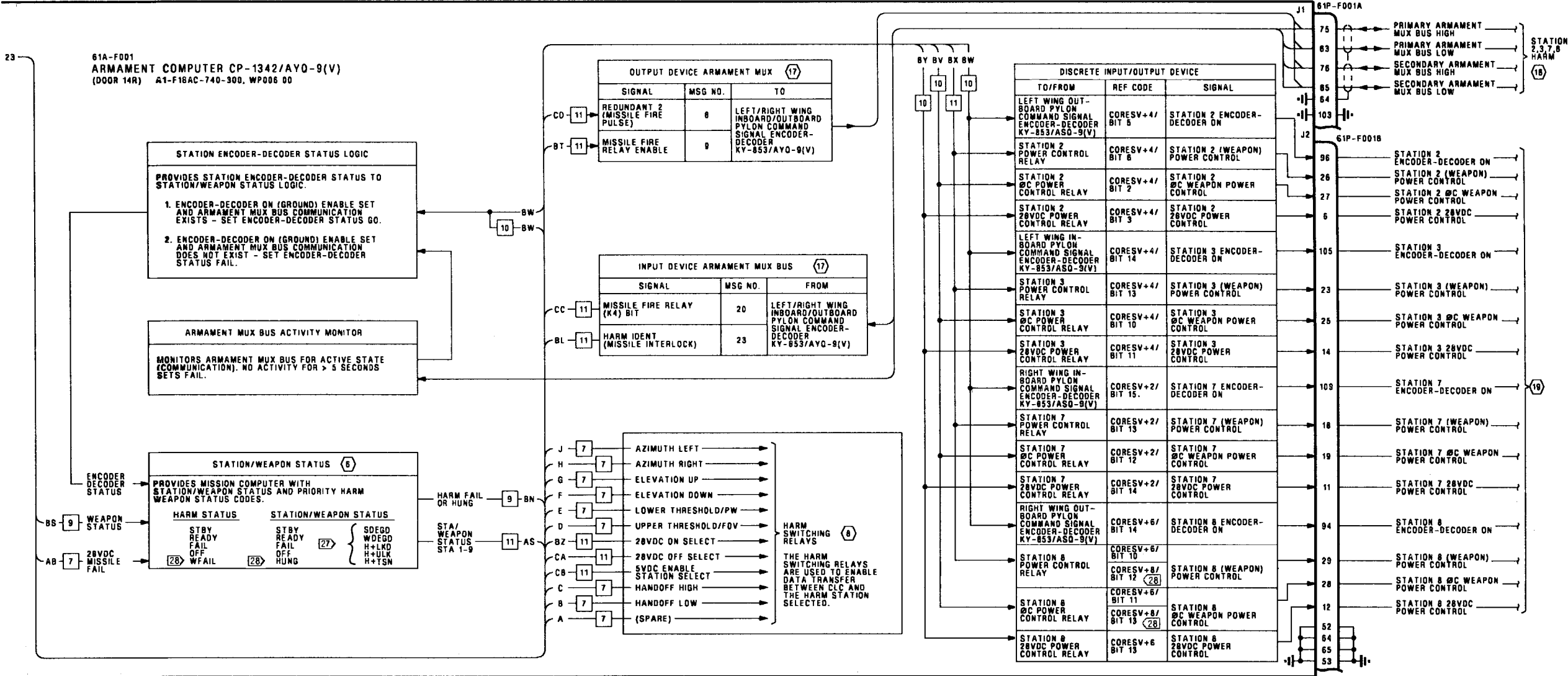


Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 12)

LEGEND

1.	NONSTANDARD SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:	15	SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	16	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	17	ARMAMENT MUX BUS DATA, WP010 00.
	C. WHEN TESTING CONTINUITY, TEST FOR:	18	WEAPON STATION 2, 3, 7, 8 AGM-88 HARM SCHEMATIC, WP055 00.
	(1) SHORTS TO GROUND.	19	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.		
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.		
	(4) SHIELD CONTINUITY.		
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.		
4	APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	20	WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.
5	MASTER ARM SCHEMATIC, WP017 00.	21	AGM-88 HARM TARGET OF OPPORTUNITY (TOO) MODE INTERFACE SCHEMATIC, WP057 00.
6	STORES INVENTORY SCHEMATIC, WP015 00.	22	AGM-88 HARM SELF-PROTECT (SP) MODE INTERFACE SCHEMATIC, WP058 00.
7	LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130-500, WP006 00.	23	AGM-88 HARM PRE-BRIEFED (PB) MODE INTERFACE SCHEMATIC, 059 00.
8	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	24	F/A-18A.
9	COCKPIT WARNING/CAUTION/ADVISORY LIGHTS SYSTEM SCHEMATIC, A1-F18AC-440-500, WP006 00.	25	F/A-18B.
		26	DELETED.
10	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	27	162394 THRU 163175 BEFORE F/A-18 AFC 253 OR AFC 292.
11	INTERFACE BLANKER SYSTEM FUNCTIONAL SCHEMATIC, A1-F18AC-760-500, WP004 00.	28	162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.
12	INTEGRATION SCHEMATIC, A1-F18AC-760-500, WP019 00.	29	161353 THRU 161519 BEFORE F/A-18 AFC 27.
13	AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00.	30	161520 AND UP: ALSO 161353 THRU 161519 AFTER F/A-18 AFC 253.
14	DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.	31	161353 THRU 161359.
		32	161360 AND UP.

Figure 1.

Figure 1. AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic (Sheet 13)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

**SCHEMATIC - AGM-88 TARGET OF OPPORTUNITY (TOO)
MODE INTERFACE**

STORES MANAGEMENT SYSTEM

Title	WP Number
AGM-88 Target of Opportunity (TOO) Mode Interface Schematic - 161353 AND UP BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292	057 01
AGM-88 Target of Opportunity (TOO) Mode Interface Schematic - 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292	057 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

**SCHEMATIC - AGM-88 HARM TARGET OF OPPORTUNITY (TOO)
MODE INTERFACE**

STORES MANAGEMENT SYSTEM

**EFFECTIVITY: WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/ IDENT 85A +
AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A + AND UP
(A1-F18AC-SCM-000) AND 161353 AND UP BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292**

Reference Material

None

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Record of Applicable Technical Directives

None

1. **INTRODUCTION.**
- ments the AGM-88 HARM Avionic Interface Schematic - Armament Computer/Command Launch Computer in WP056 00.
2. The schematic in this work package shows the mission computer system functions for the Harm Target of Opportunity mode. This schematic supple-
3. The location of the components on this schematic can be seen in WP008 00.

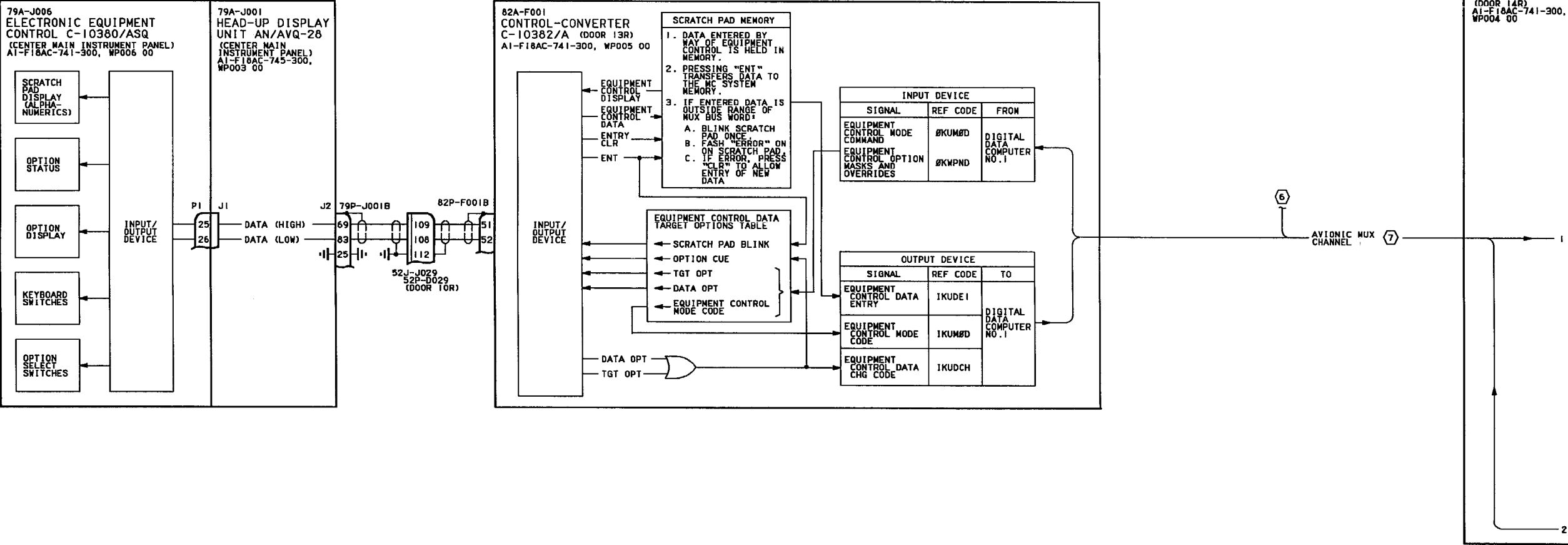


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 1)

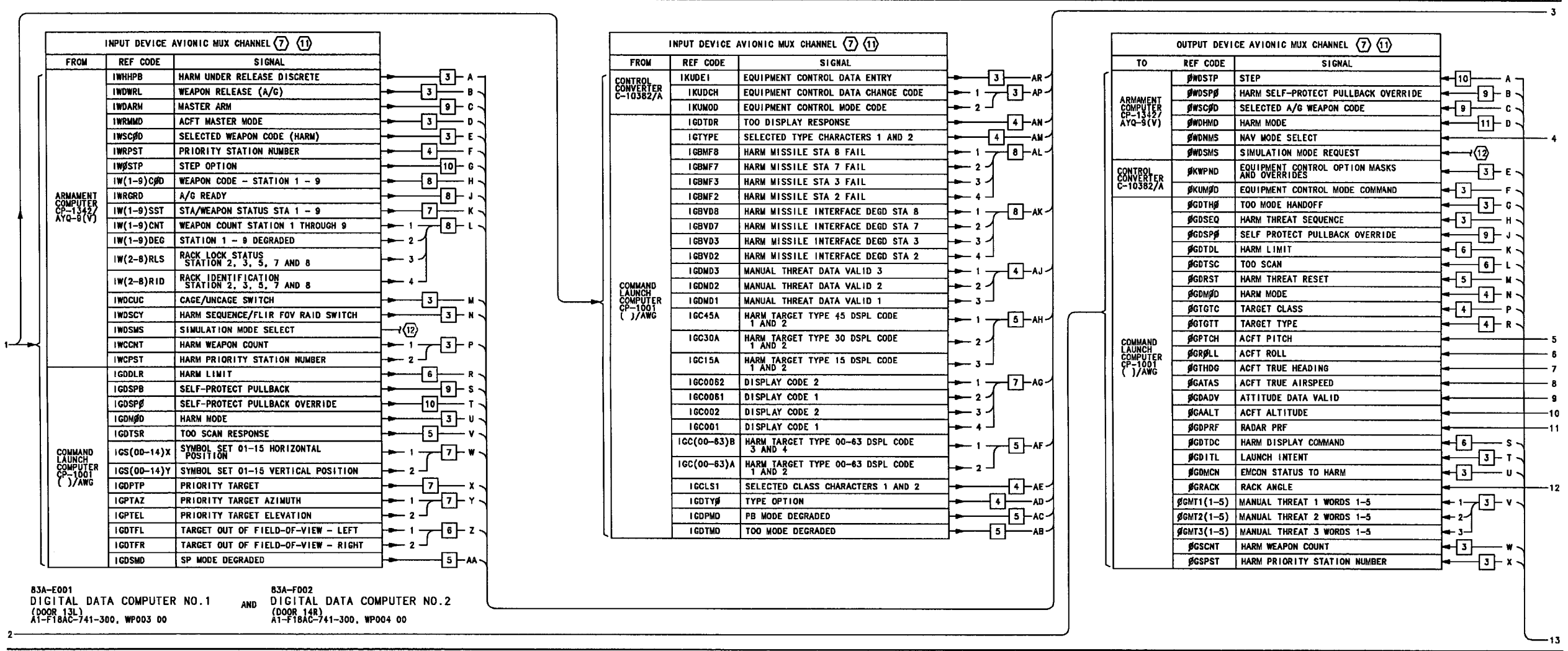


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 2)

Figure 1.

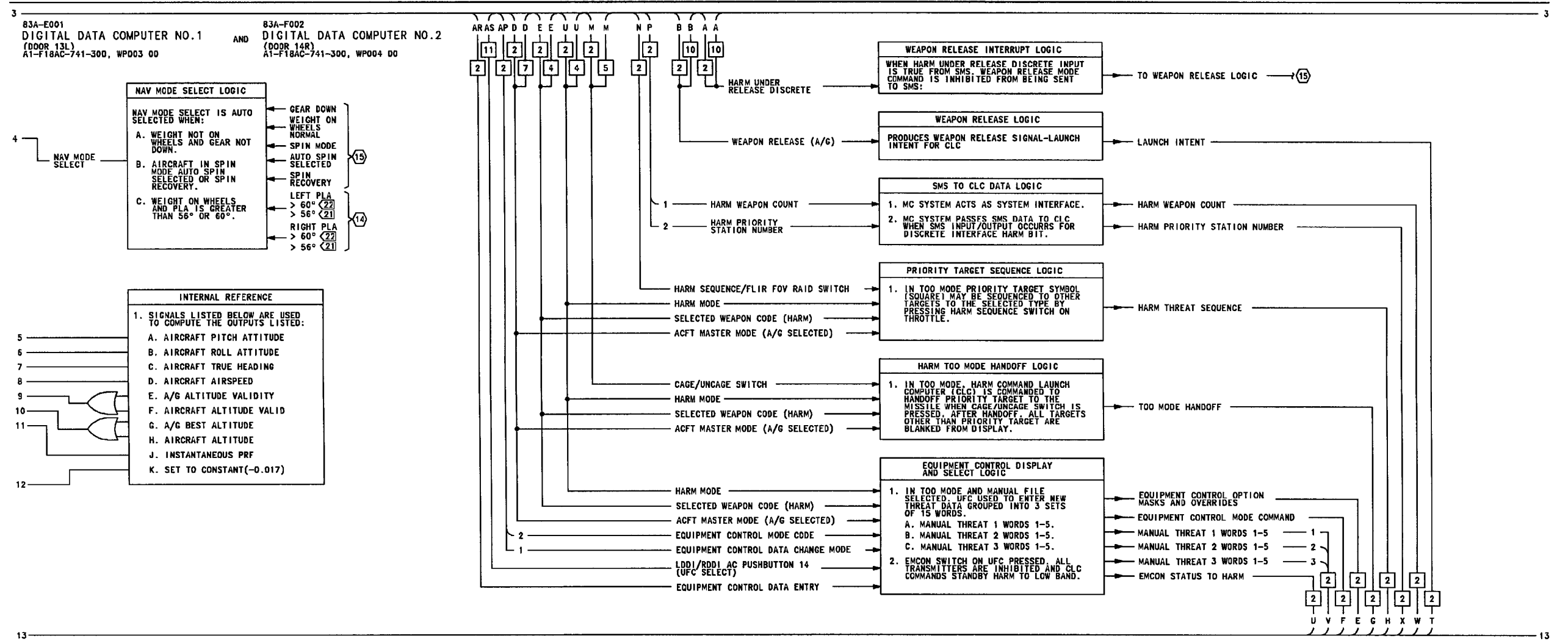


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 3)

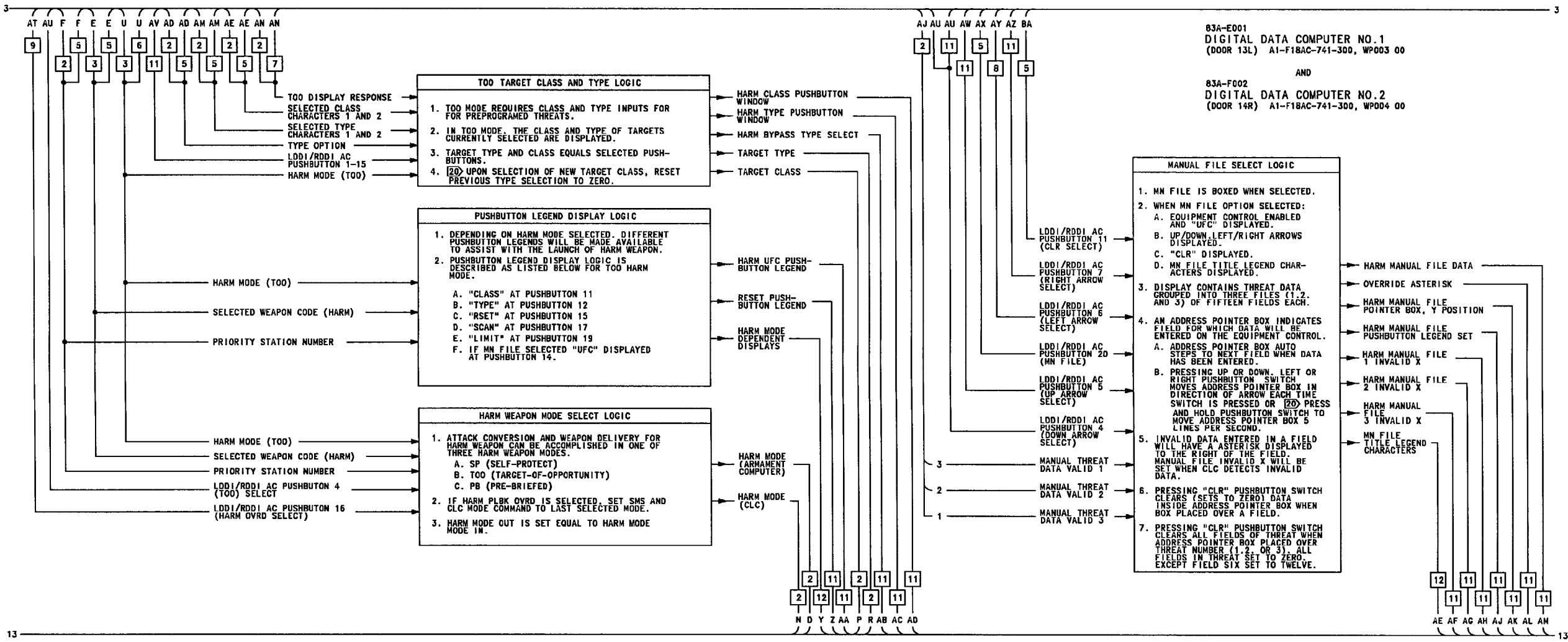


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 4)

57010104
Figure 1.



Figure 1.

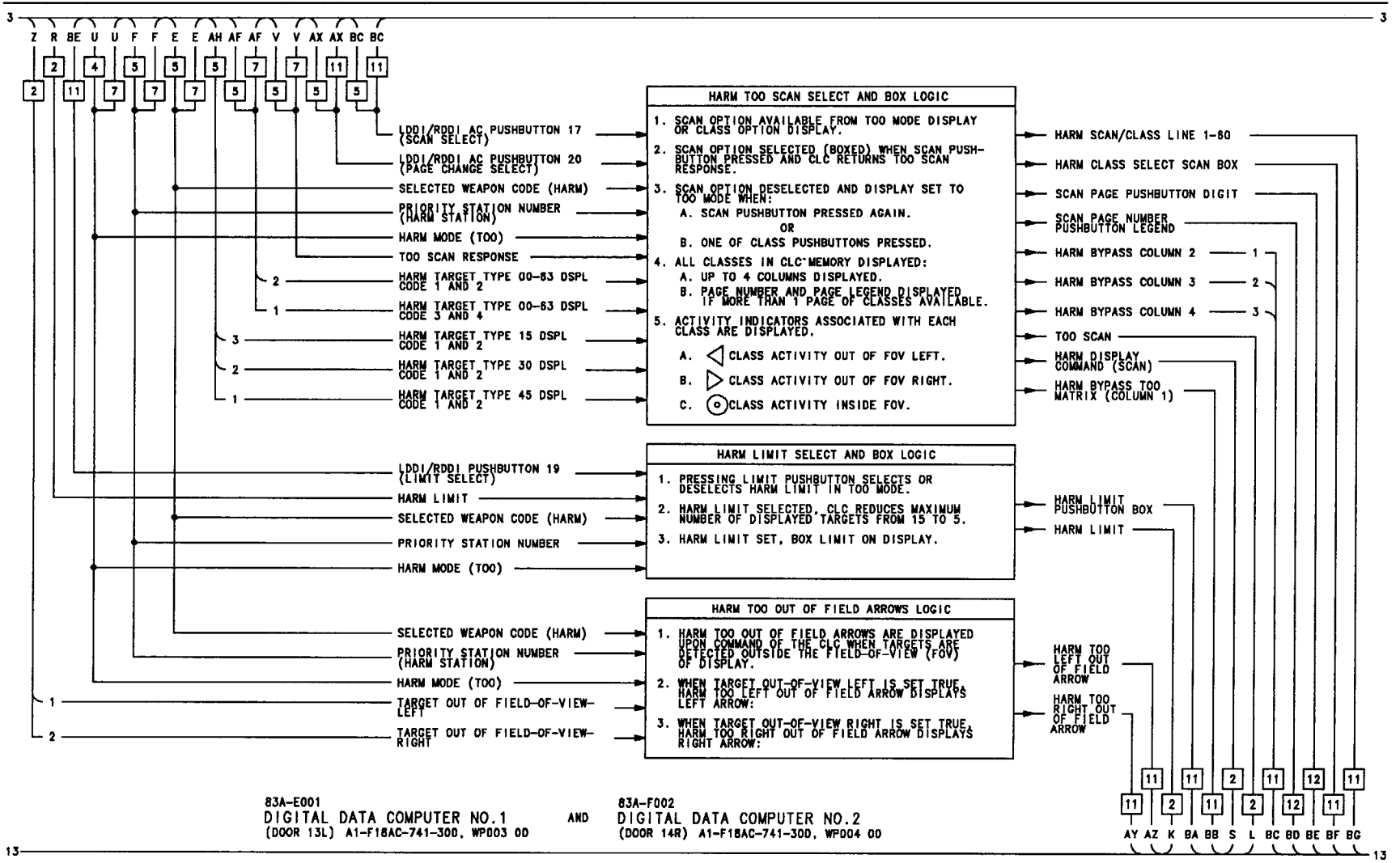
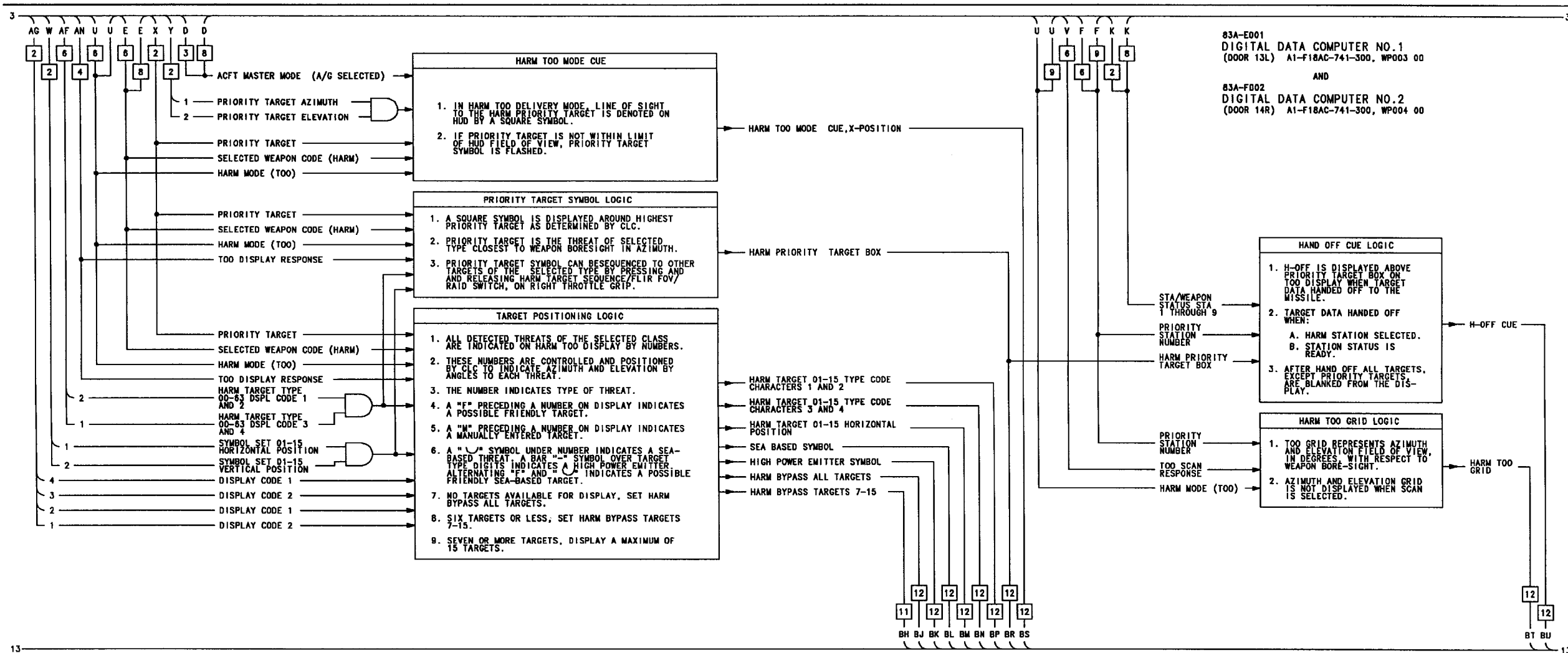


Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 6)



83A-E001
DIGITAL DATA COMPUTER NO.1
(DOOR 13L) A1-F18AC-741-300, WP003 00

AND

83A-F002
DIGITAL DATA COMPUTER NO.2
(DOOR 14R) A1-F18AC-741-300, WP004 00

Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 7)

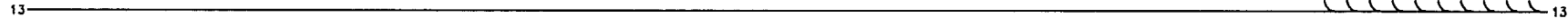


Figure 1.

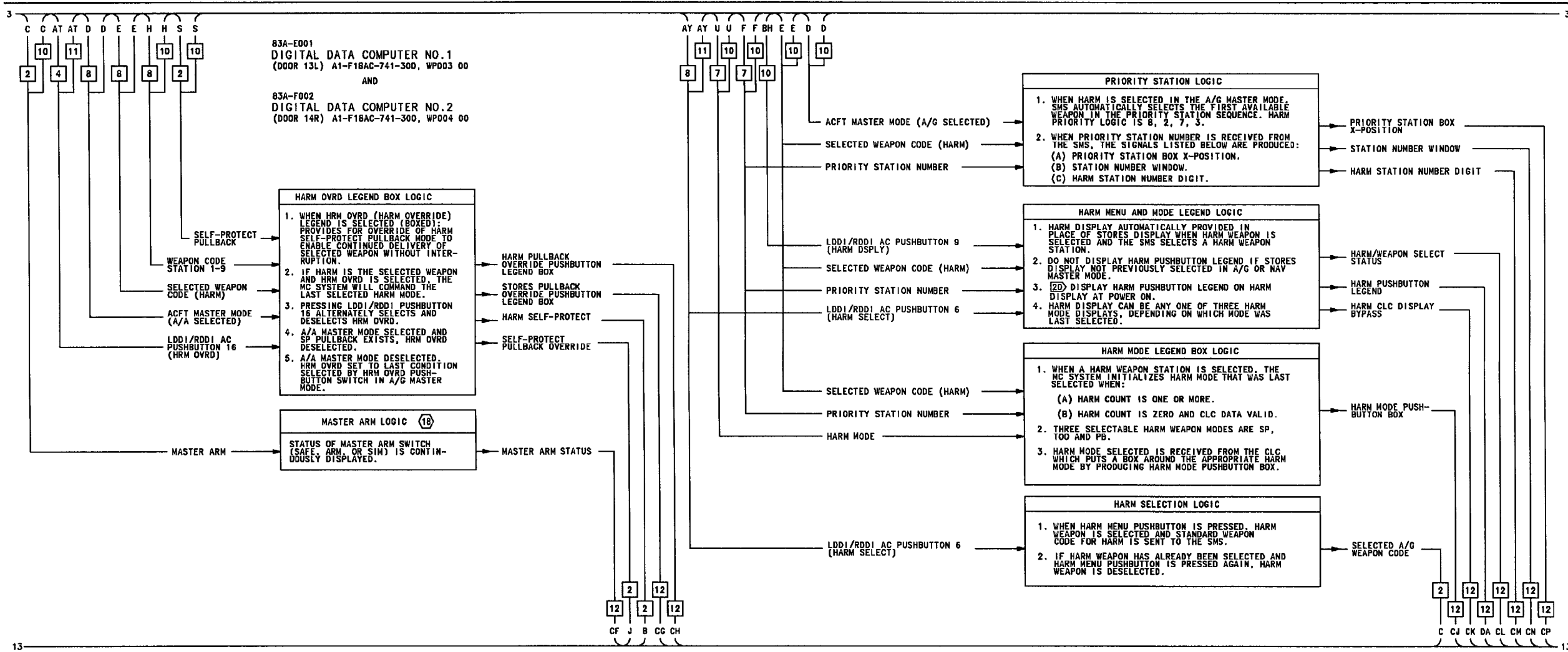


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 9)

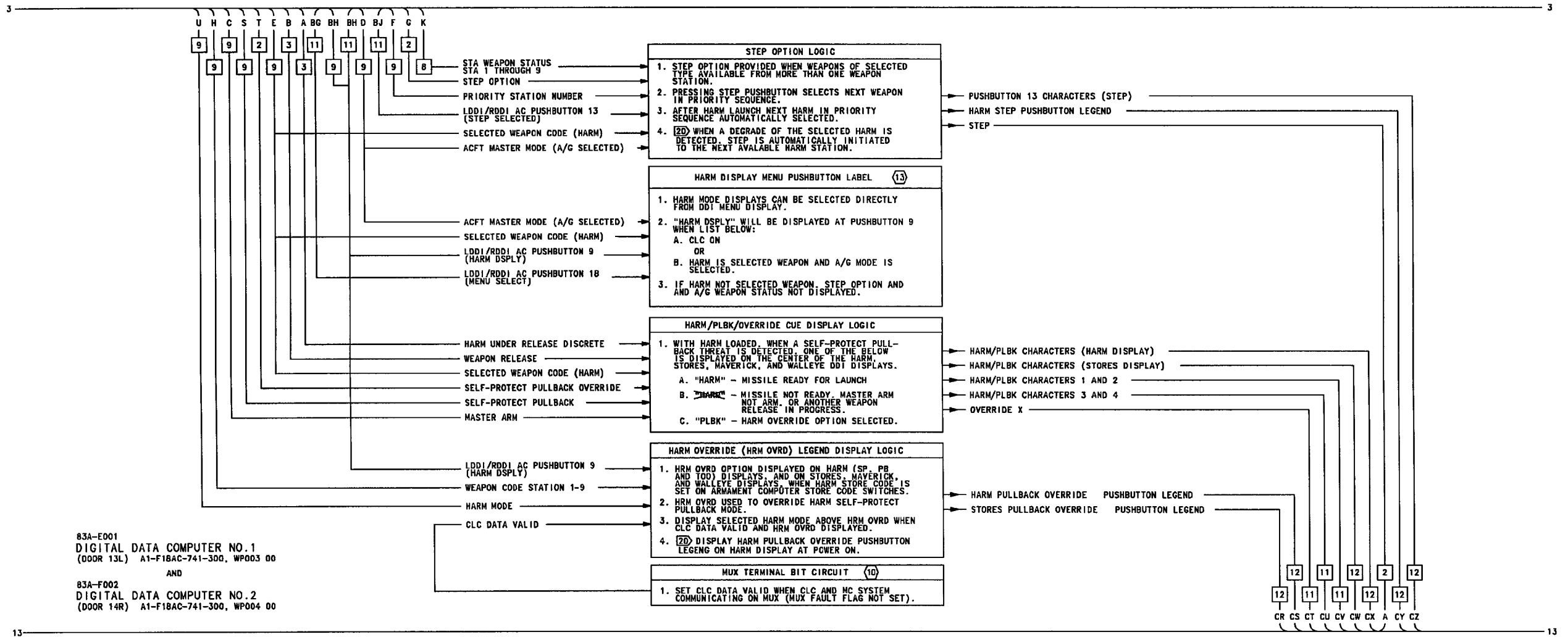


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 10)

83A-E001
DIGITAL DATA COMPUTER NO.1
(DOOR 13L) A1-F18AC-741-300, WP003 00
AND
83A-F002
DIGITAL DATA COMPUTER NO.2
(DOOR 14R) A1-F18AC-741-300, WP004 00

A/G WEAPON RELEASE TONE LOGIC 9

1. TONE COMMAND "TONE 1" (COMM 1) OR "TONE 2" (COMM 2) SENT TO VHF/UHF COMMUNICATIONS SYSTEM WHEN:
(A) TONE 1 OR 2 IS SELECTED ON STORES DISPLAY.
(B) WEAPON RELEASE LOGIC IS SATISFIED.

2. VHF/UHF COMMUNICATION SYSTEM TRANSMITS TONE AND PROVIDES OUTPUT TO INTERCOMMUNICATIONS AND AUDIO SYSTEM.

3. INTERCOMMUNICATIONS AND AUDIO SYSTEM PROVIDES AUDIO TONE TO PILOT/INSTRUCTOR HEADSETS.

TONE PUSHBUTTON LEGEND

DA

INPUT DEVICE AVIONIC MUX CHANNEL 7			
SIGNAL		REF CODES (NOT SHOWN)	FROM
AS 3	LDDI/RDDI AC PUSHBUTTON 14 (UFC SELECT)	IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION TROUBLESHOOT USING: DISPLAYS TEST A1-F18AC-745-200 WP004 00 (F/A-18A) OR WP005 00 (F/A-18B)	MULTI-PURPOSE DISPLAY GROUP
AT 9	LDDI/RDDI AC PUSHBUTTON 18 (HRM OVRD SELECT)		
AU 4	LDDI/RDDI AC PUSHBUTTON 4 (TOO SELECT) (DOWN ARROW SELECT)		
AW 4	LDDI/RDDI AC PUSHBUTTON 5 (UP ARROW SELECT)		
AV 4	LDDI/RDDI AC PUSHBUTTONS 1-15 (CLASS/TYPE SELECT)		
AX 6	LDDI/RDDI AC PUSHBUTTON 20 (MNM FILE SELECT) (PAGE CHANGE SELECT)		
AY 9	LDDI/RDDI AC PUSHBUTTON 6 (LEFT ARROW SELECT) (HARM SELECT)		
AZ 4	LDDI/RDDI AC PUSHBUTTON 7 (RIGHT ARROW SELECT)		
BA 5	LDDI/RDDI AC PUSHBUTTON 11 (CLR SELECT) (CLASS SELECT)		
BB 5	LDDI/RDDI AC PUSHBUTTON 12 (TYPE SELECT)		
BD 5	LDDI/RDDI AC PUSHBUTTON 15 (RSET SELECT) (SIM SELECT)		
BC 6	LDDI/RDDI AC PUSHBUTTON 17 (SCAN SELECT)		
BE 6	LDDI/RDDI AC PUSHBUTTON 19 (LIMIT SELECT) (TONE SELECT)		
BG 10	LDDI/RDDI AC PUSHBUTTON 18 (MENU PULLUP SELECT)		
BH 10	LDDI/RDDI AC PUSHBUTTON 9 (HARM DSPLY SELECT)		
BJ 10	LDDI/RDDI AC PUSHBUTTON 13 (STEP SELECT)		

OUTPUT DEVICE AVIONIC MUX BUS CHANNEL 7			
SIGNAL		REF CODE	TO
BH 7	HARM BYPASS TARGETS 7-15	4	MULTI-PURPOSE DISPLAY GROUP
BG 6	HARM SCAN/CLASS LINE 1-60		
BF 6	HARM CLASS SELECT SCAN BOX		
BC 6	HARM BYPASS COLUMN 4		
	HARM BYPASS COLUMN 3		
BB 6	HARM BYPASS COLUMN 2		
	HARM BYPASS TOO MATRIX (COLUMN 1)		
BA 6	HARM LIMIT PUSHBUTTON BOX		
AZ 5	HARM TOO LEFT OUT OF FIELD ARROW		
AY 6	HARM TOO RIGHT OUT OF FIELD ARROW		
AX 5	HARM CLASS/TYPE PUSHBUTTONS 1-15		
AW 5	HARM TITLE DATA CHARACTERS		
AN 5	HARM PB MODE DEGRADED X		
	HARM TOO MODE DEGRADED X		
	HARM SP MODE DEGRADED X		
AL 4	OVERRIDE ASTERISK		
AK 4	HARM MANUAL FILE POINTER BOX, Y POSITION		
AJ 4	HARM MANUAL FILE PUSHBUTTON LEGEND SET		
AH 4	HARM MANUAL FILE 1 INVALID X		
AG 4	HARM MANUAL FILE 2 INVALID X		
AF 4	HARM MANUAL FILE 3 INVALID X		
AA 4	HARM UFC PUSHBUTTON LEGEND		
AM 4	HARM MANUAL FILE DATA		
CB 8	STATION 1-9 STATUS CHARACTERS		
Z 4	RSET PUSHBUTTON LEGEND		
AD 4	HARM CLASS PUSHBUTTON WINDOW		
AC 4	HARM TYPE PUSHBUTTON WINDOW		
AB 4	HARM BYPASS TYPE SELECT		
DA 4	TONE PUSHBUTTON LEGEND		
CV 10	HARM/PLBK CHARACTERS 1 AND 2		
CU 10	HARM/PLBK CHARACTERS 3 AND 4		
CT 10	OVERRIDE X		

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 11)

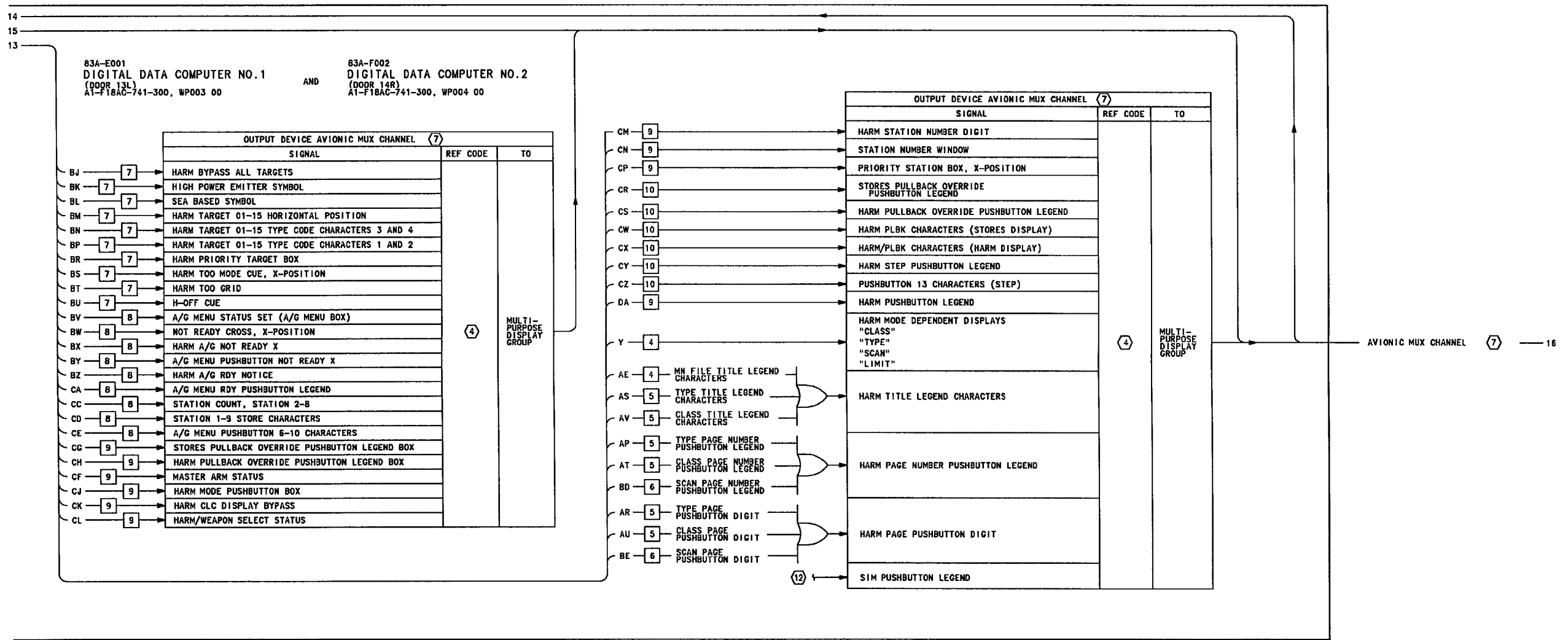


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 12)

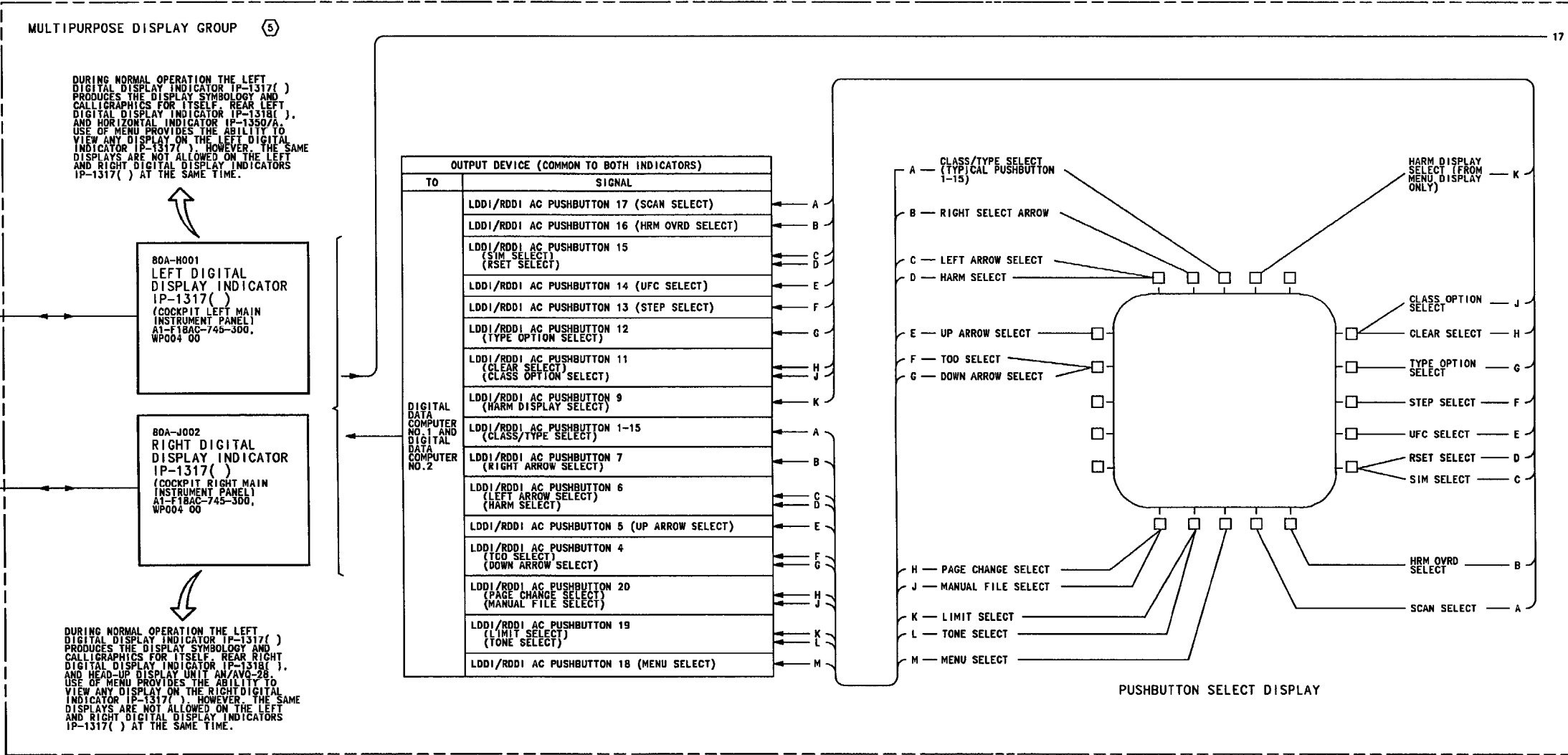


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 13)

17

INPUT DEVICE (COMMON TO BOTH INDICATORS)	
FROM	SIGNAL
DIGITAL DATA COMPUTER NO. 1 AND DIGITAL DATA COMPUTER NO. 2	A/G MENU PUSHBUTTON NOT READY X
	A/G MENU PUSHBUTTON 8-10 CHARACTERS
	A/G MENU BOX
	A/G MENU RDY PUSHBUTTON LEGEND
	STATION COUNT, STATION 2-8
	PRIORITY STATION BOX, X-POSITION
	STATION 1-9 STATUS CHARACTERS
	HARM/PLBK CHARACTERS (STORES DISPLAY)
	TOPE PUSHBUTTON LEGEND
	HARM MANUAL FILE POINTER BOX, Y-POSITION
	OVERRRIDE ASTERISK
	HARM MANUAL FILE DATA
	HARM UFC PUSHBUTTON LEGEND
	HARM MANUAL FILE PUSHBUTTON LEGEND SET
	"CLR"
	"BOX"
	"ARROWS"
	HARM PULLBACK OVERRIDE PUSHBUTTON LEGEND
	HARM PULLBACK OVERRIDE PUSHBUTTON LEGEND BOX
	HARM/PLBK CHARACTERS 1 AND 2
	HARM/PLBK CHARACTERS 3 AND 4
	OVERRIDE X
	HARM TOO MODE CUE, X-POSITION
	NOT READY CROSS, X-POSITION

MULTIPURPOSE DISPLAY GROUP (5)

DDI DISPLAYS

HUD DISPLAYS

INPUT DEVICE (COMMON TO BOTH INDICATORS)	
FROM	SIGNAL
DIGITAL DATA COMPUTER NO. 1 AND DIGITAL DATA COMPUTER NO. 2	HARM/WEAPON SELECT STATUS
	HARM STATION NUMBER DIGIT
	HARM STEP PUSHBUTTON LEGEND
	HARM MODE DEPENDENT DISPLAYS
	"CLASS"
	"TYPE"
	"SCAN"
	"LIMIT"
	HARM BYPASS TARGETS 7-15
	HARM TARGET 01-15 TYPE CODE CHARACTERS 3 AND 4
	HARM TARGET 01-15 TYPE CODE CHARACTERS 1 AND 2
	HARM TARGET 01-15 HORIZONTAL POSITION
	HARM BYPASS ALL TARGETS
	HARM SCAN/CLASS LINE 1-80
	HARM BYPASS COLUMN 3
	HARM BYPASS COLUMN 4
	HARM BYPASS TOO MATRIX (COLUMN 1)
	HARM BYPASS COLUMN 2
	STATION 1-9 STORE CHARACTERS
	STEP
	SIM PUSHBUTTON LEGEND
	STORES HARM PULLBACK OVERRIDE PUSHBUTTON LEGEND
	STORES PULLBACK OVERRIDE PUSHBUTTON LEGEND BOX
	HARM MANUAL FILE 1 INVALID X
	HARM MANUAL FILE 2 INVALID X
	HARM MANUAL FILE 3 INVALID X
	HARM TITLE LEGEND CHARACTERS

TARGETS 7-15

TARGETS 1-6

DDI DISPLAYS

INPUT DEVICE (COMMON TO BOTH INDICATORS)	
FROM	SIGNAL
DIGITAL DATA COMPUTER NO. 1 AND DIGITAL DATA COMPUTER NO. 2	MASTER ARM STATUS
	SEA BASED SYMBOL
	HARM MODE PUSHBUTTON BOX
	HARM PB MODE DEGRADED X
	HARM TOO MODE DEGRADED X
	HARM CLASS SELECT SCAN BOX
	HARM SP MODE DEGRADED X
	HARM PAGE PUSHBUTTON DIGIT
	HARM PAGE NUMBER PUSHBUTTON LEGEND
	HARM CLASS/TYPE PUSHBUTTONS 1-15
	HARM TITLE DATA CHARACTERS
	HARM A/G NOT READY X
	HARM TOO LEFT OUT OF FIELD ARROW
	HARM LIMIT PUSHBUTTON BOX
	HARM A/G RDY NOTICE
	STATION NUMBER WINDOW
	H-OFF CUE
	HARM PRIORITY TARGET BOX
	RSET PUSHBUTTON LEGEND
	HIGH POWER EMITTER SYMBOL
	HARM TYPE PUSHBUTTON WINDOW
	HARM BYPASS TYPE SELECT
	HARM CLASS PUSHBUTTON WINDOW
	HARM TOO RIGHT OUT OF FIELD ARROW
	HARM TOO GRID
	HARM CLC DISPLAY BYPASS
	HARM/PLBK CHARACTERS (HARM DISPLAY)
	HARM PUSHBUTTON LEGEND

SELECTED TYPE

DDI DISPLAYS

18
19

Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 14)

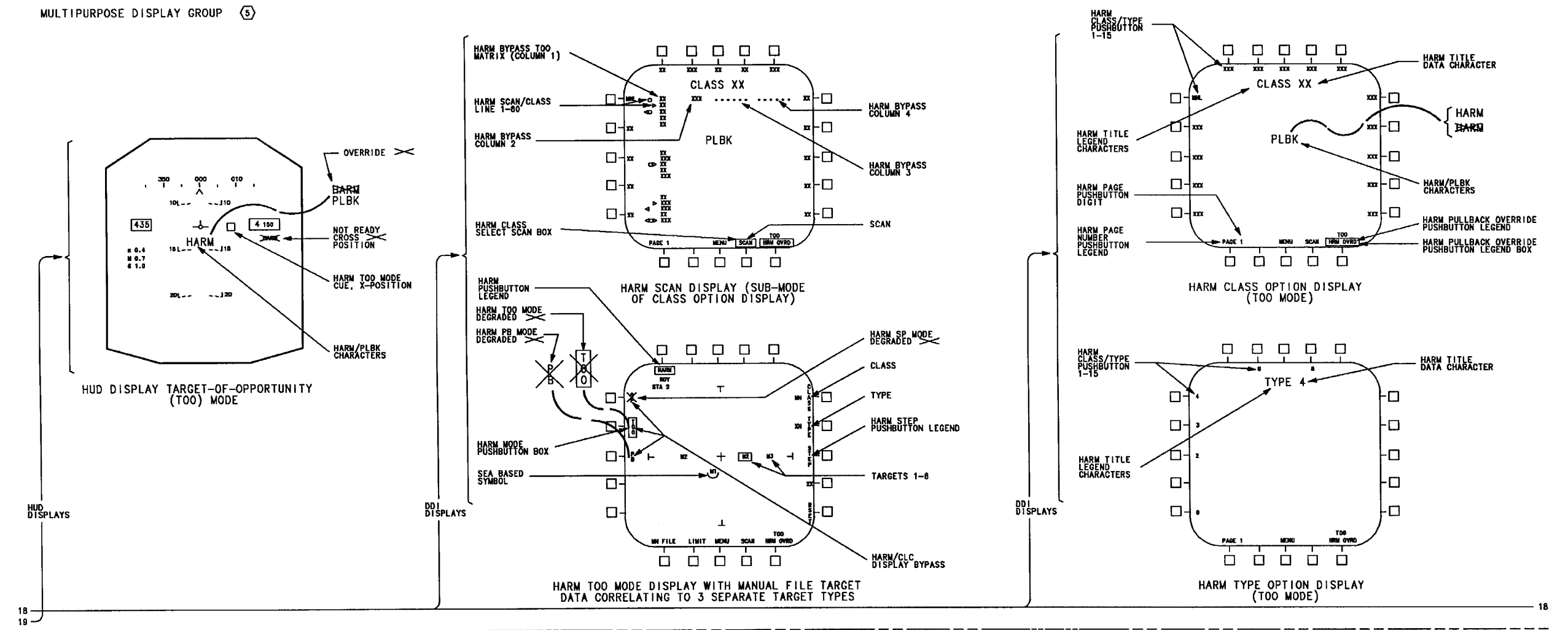


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 15)

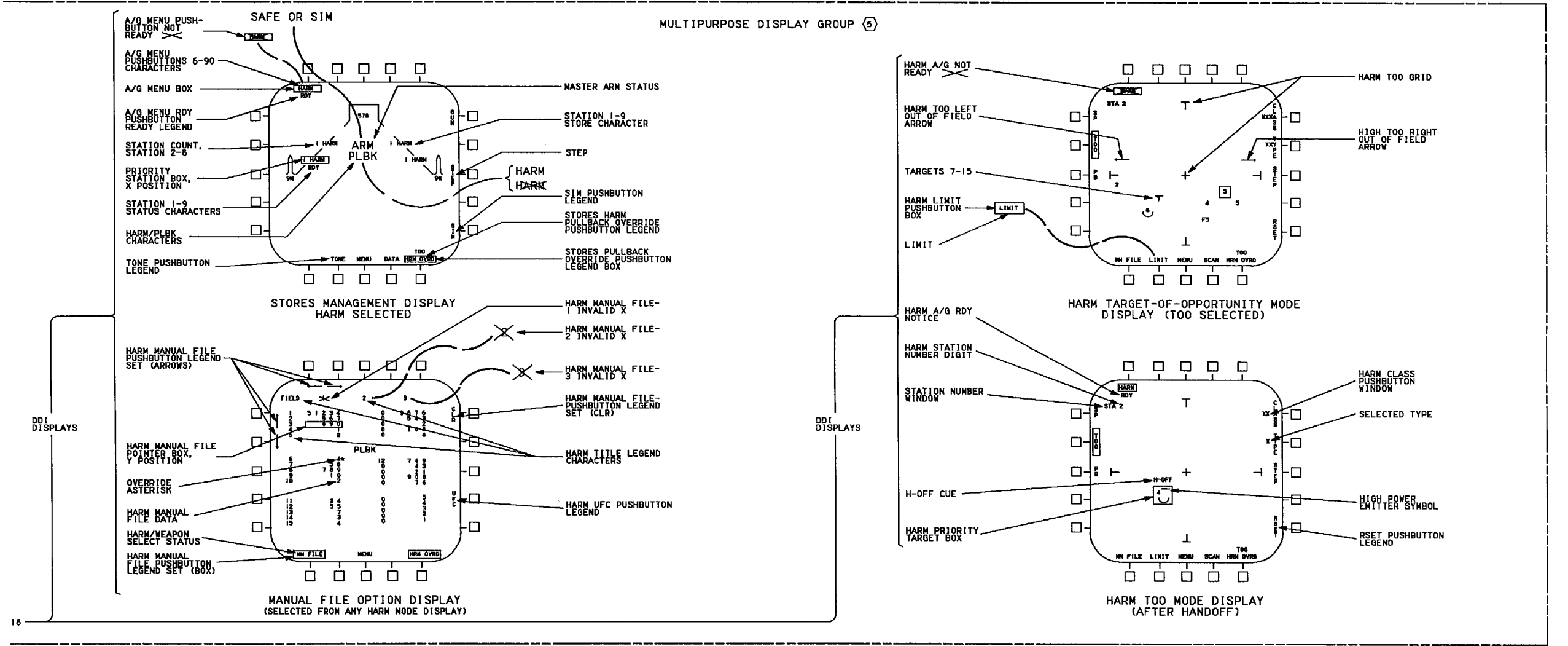


Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 16)

LEGEND

1.	NONSTANDARD SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:	8	DELETED.
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	9	AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	10	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
	C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE.	11	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
	D. WHEN TESTING CONTINUITY, TEST FOR:	12	SIMULATION MODE SELECT SCHEMATIC, WP022 00.
	(1) SHORTS TO GROUND.	13	MENU BIT CONTROL AND CHECKLIST DISPLAY FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP010 00.
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	14	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	15	BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.
	(4) SHIELD CONTINUITY.	16	AGM-88 HARM AVIONIC INTERFACE SCHEMATIC - SELF-PROTECT (SP) MODE, WP058 00.
3.	ABBREVIATIONS: SEE WP002 01.	17	STORES INVENTORY SCHEMATIC, WP015 00.
4	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST, A1-F18AC-746-200, WP004 00 (F/A-18A) OR WP006 00 (F/A-18B).	18	MASTER ARM SCHEMATIC, WP017 00.
5	THE MULTIPURPOSE DISPLAY GROUP IS MADE UP OF THE LEFT DIGITAL DISPLAY INDICATOR IP-1317(), RIGHT DIGITAL DISPLAY INDICATOR IP-1317(), HEAD UP DISPLAY UNIT AN/AVQ-28, HORIZONTAL INDICATOR IP-1350/A AND ON F/A-18B THE REAR LEFT DIGITAL DISPLAY INDICATOR IP-1318(), REAR RIGHT DIGITAL DISPLAY INDICATOR IP-1318(), AND REAR CENTER DIGITAL DISPLAY INDICATOR IP-1318(). FOR MULTIPURPOSE DISPLAY GROUP, REFER TO A1-F18AC-745-500.	19	WITH ARMAMENT COMPUTER CP-1341/AYQ-9(V) CONFIG/IDENT 85A + AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 87X AND UP (A1-F18AC-SCM-000).
6	AGM-88 HARM ARMAMENT COMPUTER/CMDLAUNCH COMPUTER AVIONIC INTERFACE SCHEMATIC, WP056 00.	20	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER 2 CONFIG/IDENT NO. 89A AND UP (A1-F18AC-SCM-000).
7	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC A1-F18AC-741-500, WP001 00.	21	161353 THRU 161528.
		22	161702 AND UP.

Figure 1.

Figure 1. AGM-88 HARM Avionic Interface Schematic - Target of Opportunity (TOO) Mode (Sheet 17)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-88 HARM TARGET OF OPPORTUNITY (TOO) MODE INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

Reference Material

None

Alphabetical Index

Subject	Page No.
AGM-88 HARM Target of Opportunity (TOO) Mode Interface	
Schematic, Figure 1	2
Introduction	1

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

Command Launch Computer Interface Schematic in
WP056 00.

2. The schematic in this work package shows the
mission computer system functions for the HARM
Target of Opportunity mode. This schematic supple-
ments the AGM-88 HARM Armament Computer/

3. The location of the components on this schematic
can be seen in WP008 00.

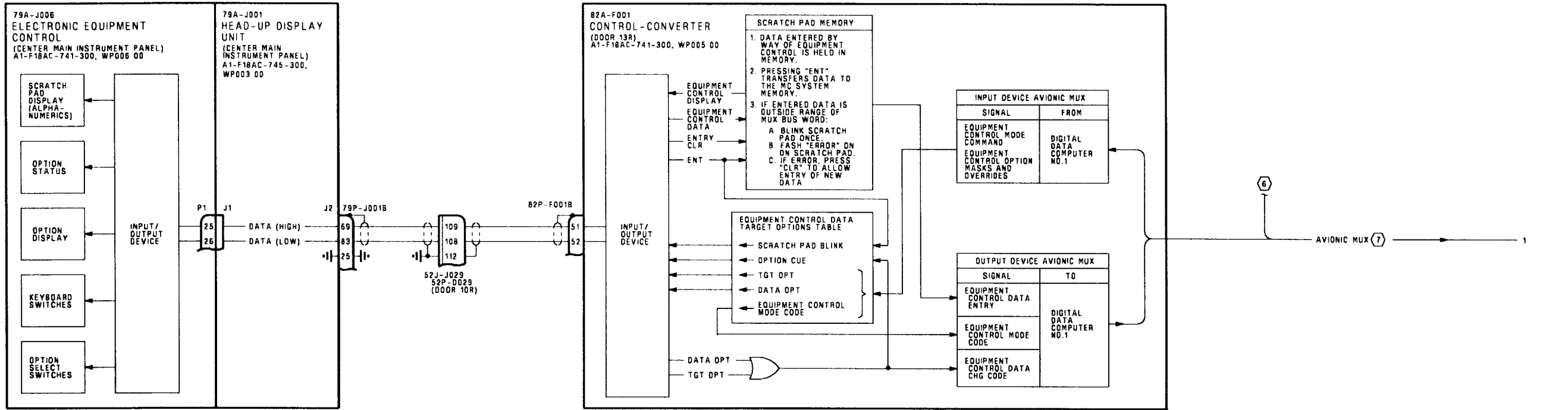


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 1)

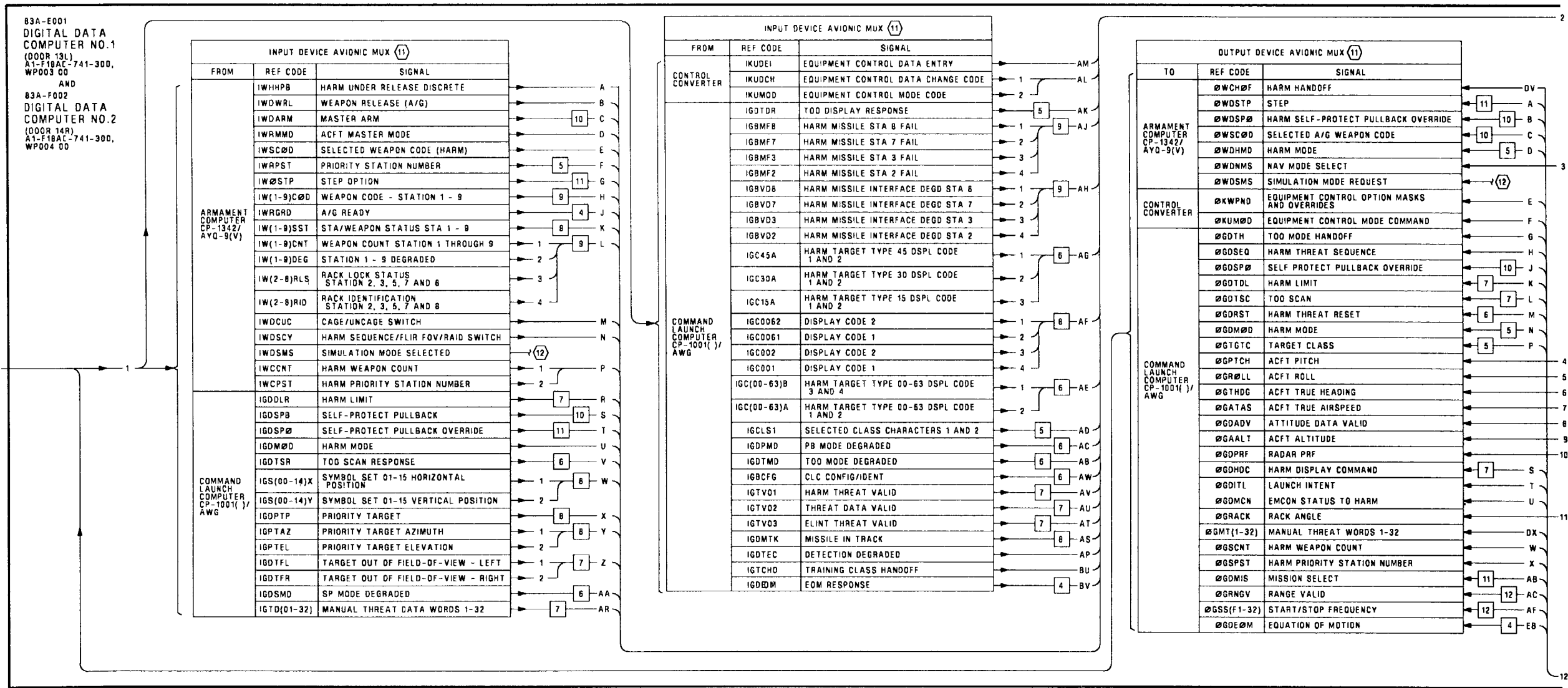


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 2)

Figure 1.

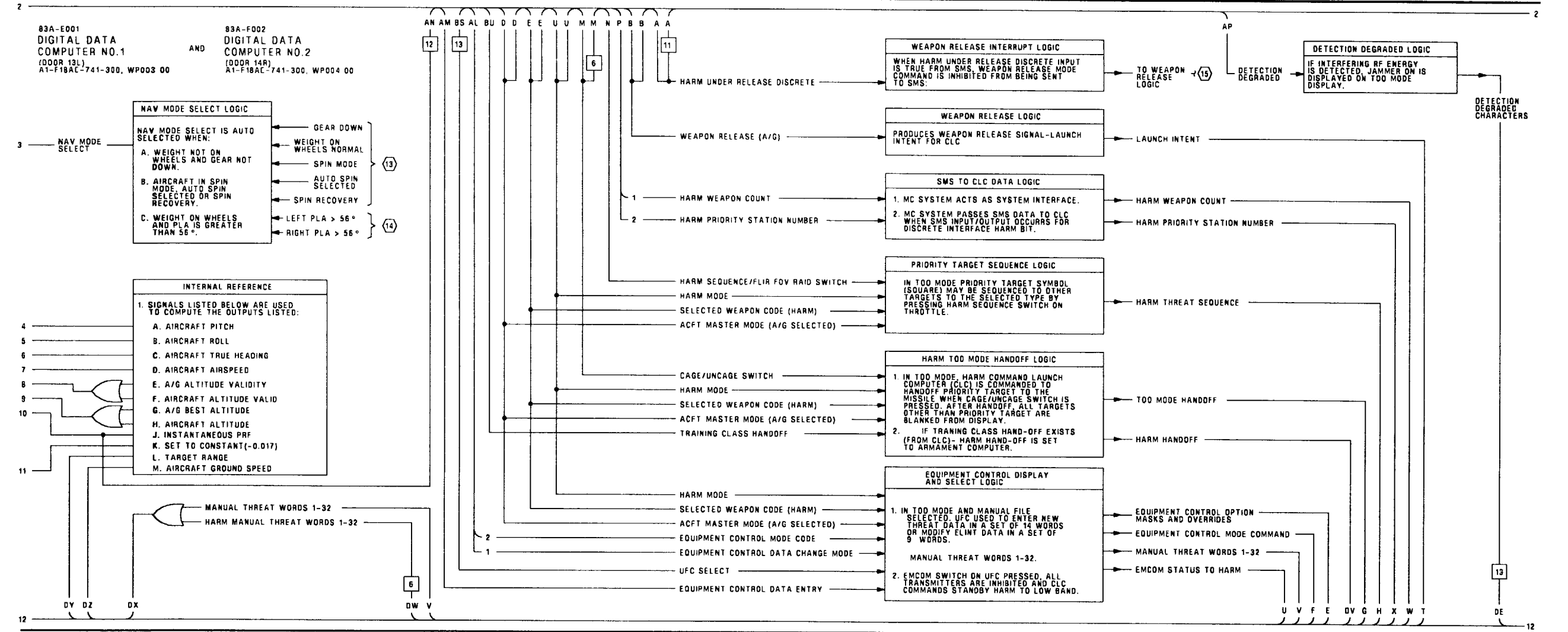


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 3)

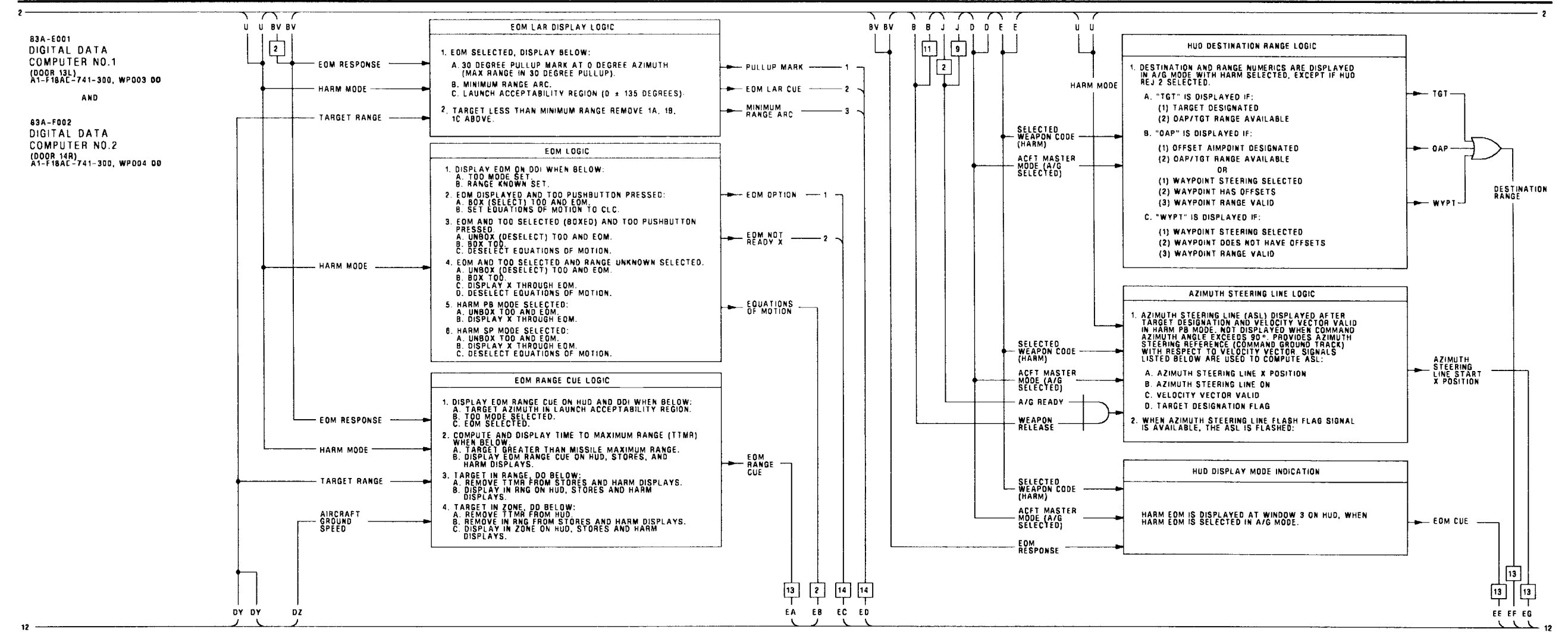


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 4)

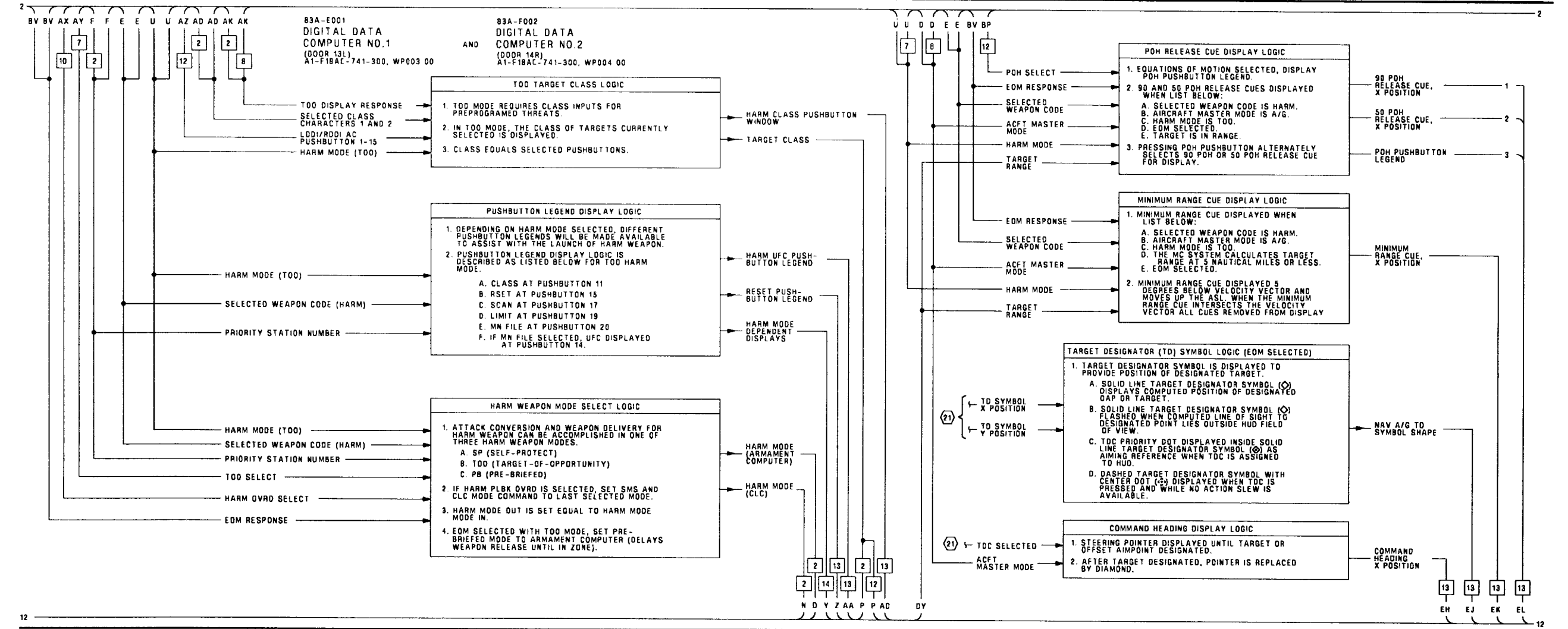
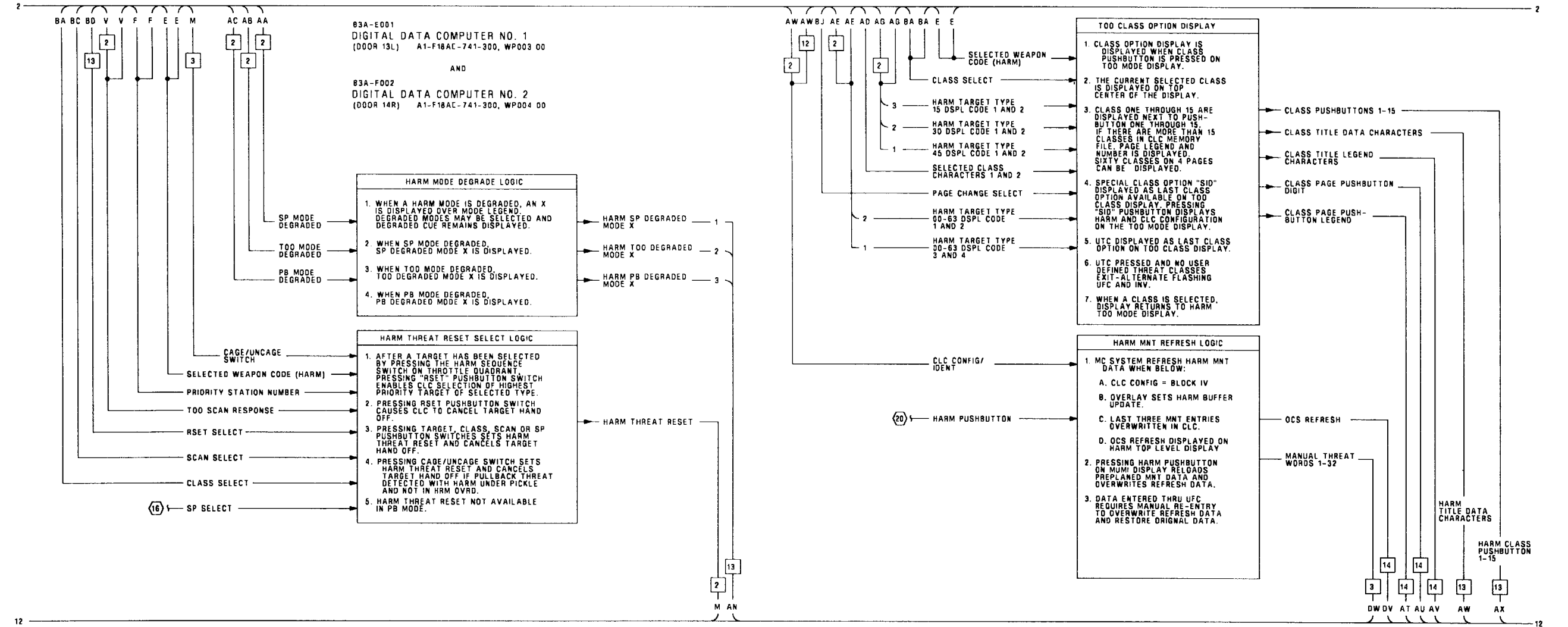


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 5)



57020106
Figure 1.

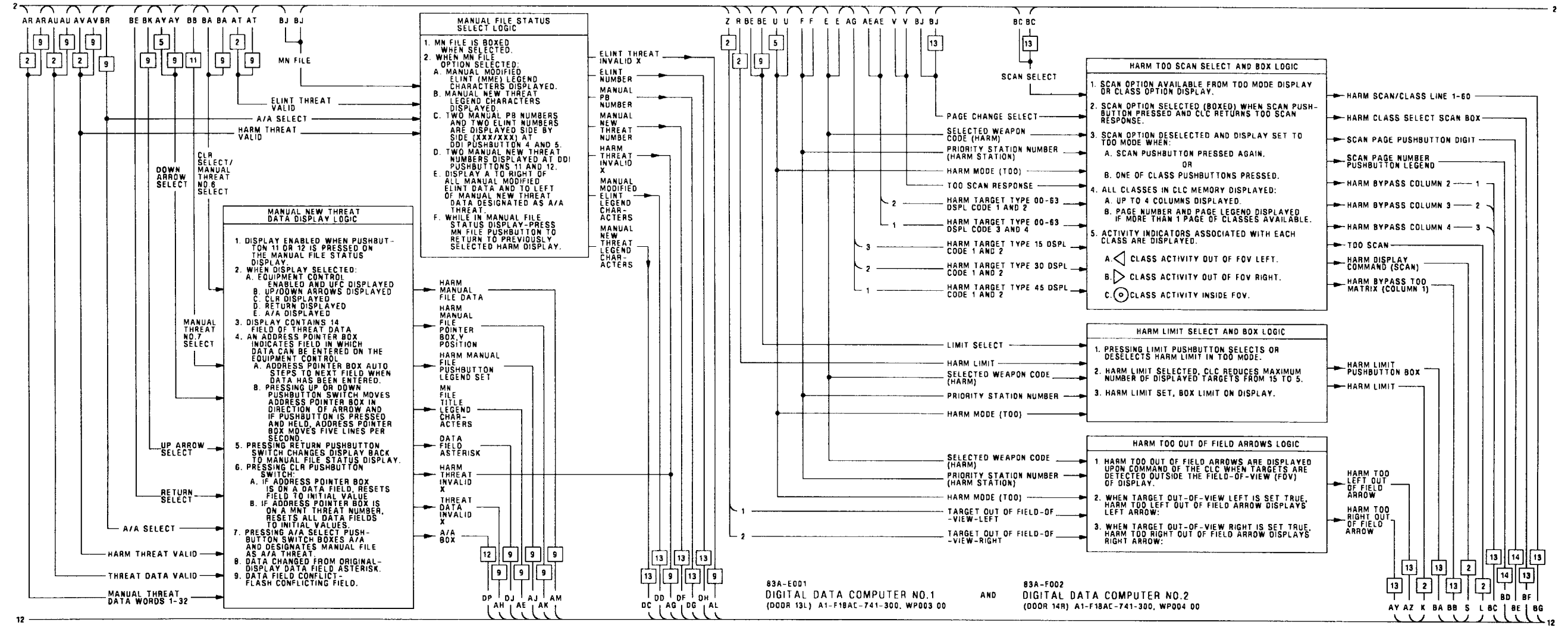


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 7)

57020107
Figure 1.

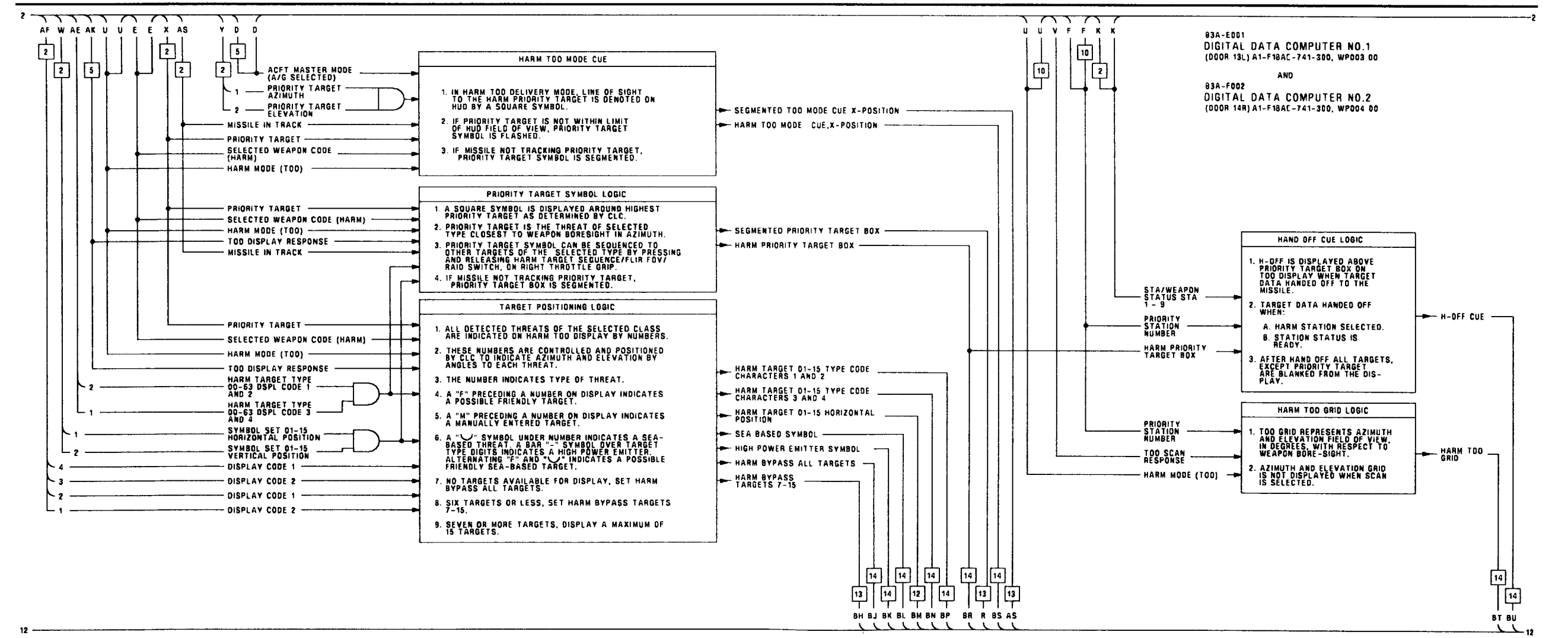
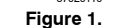


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 8)



57020109
Figure 1.



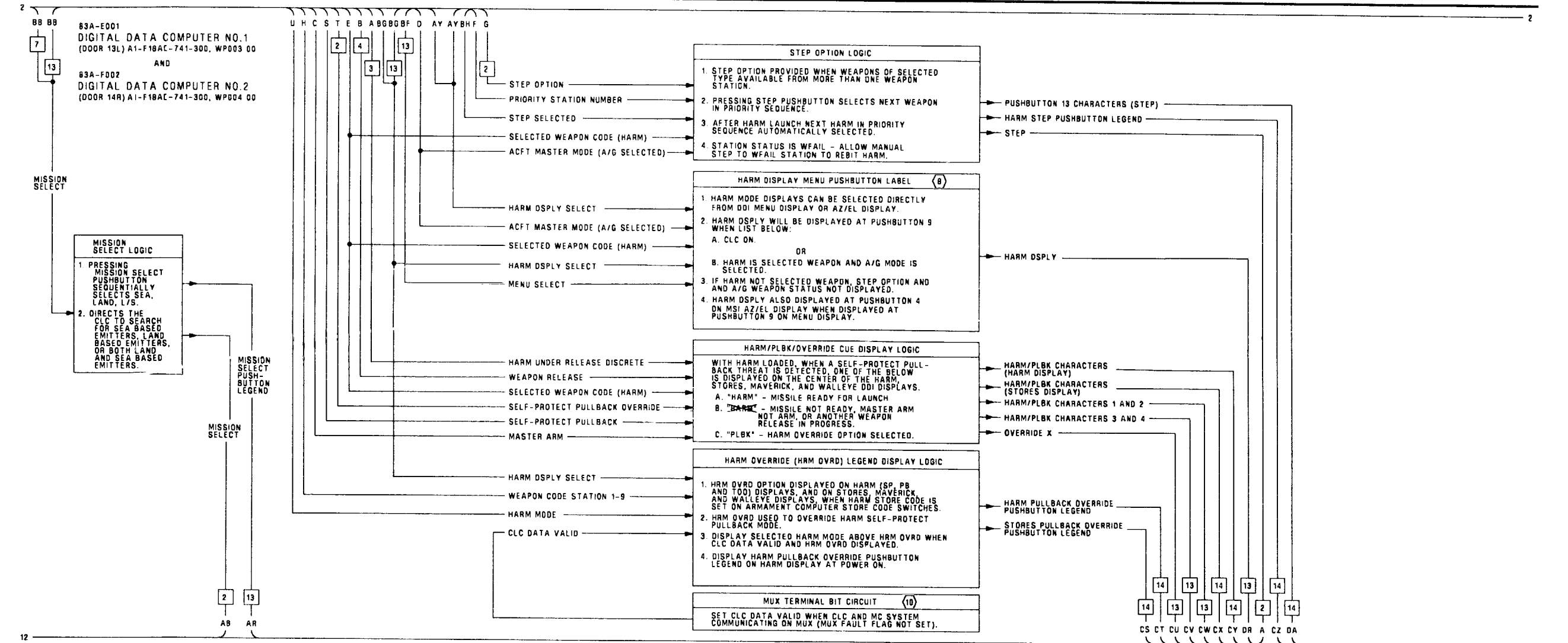


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 11)

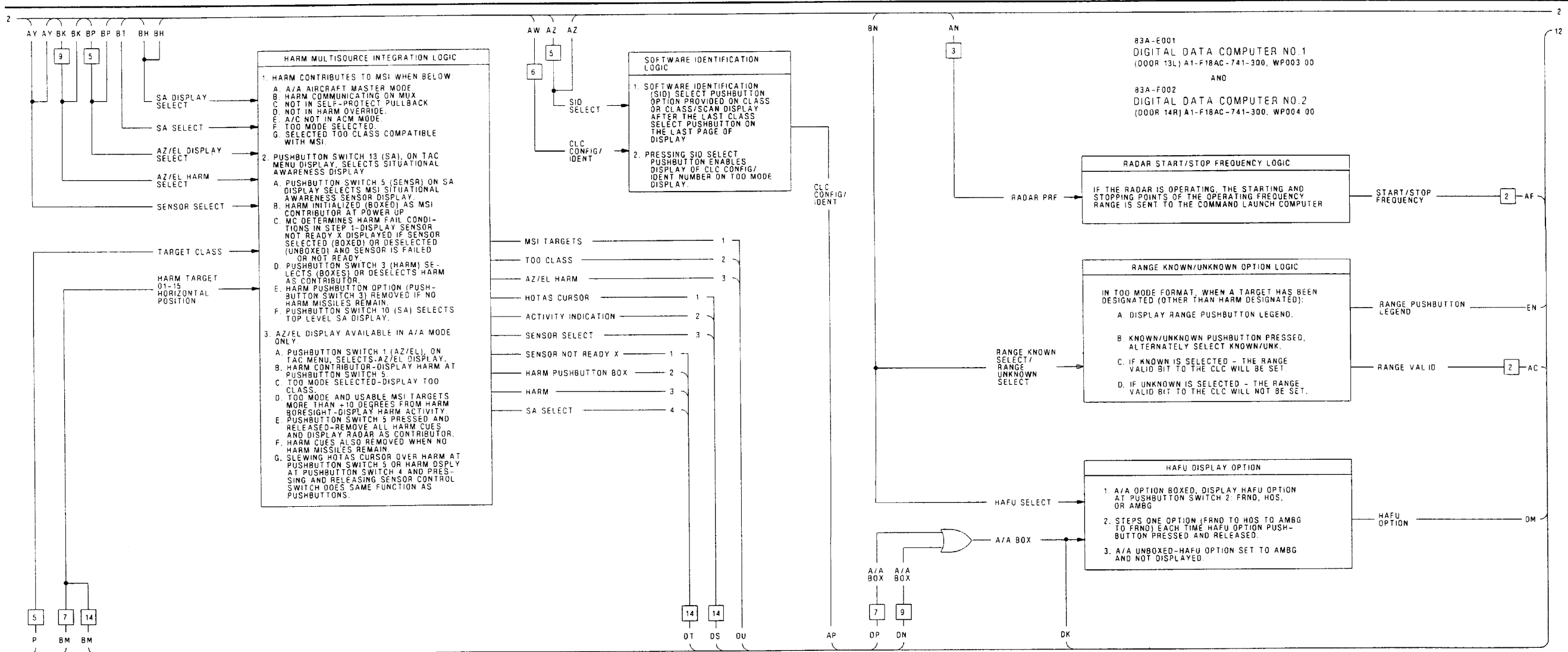


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 12)

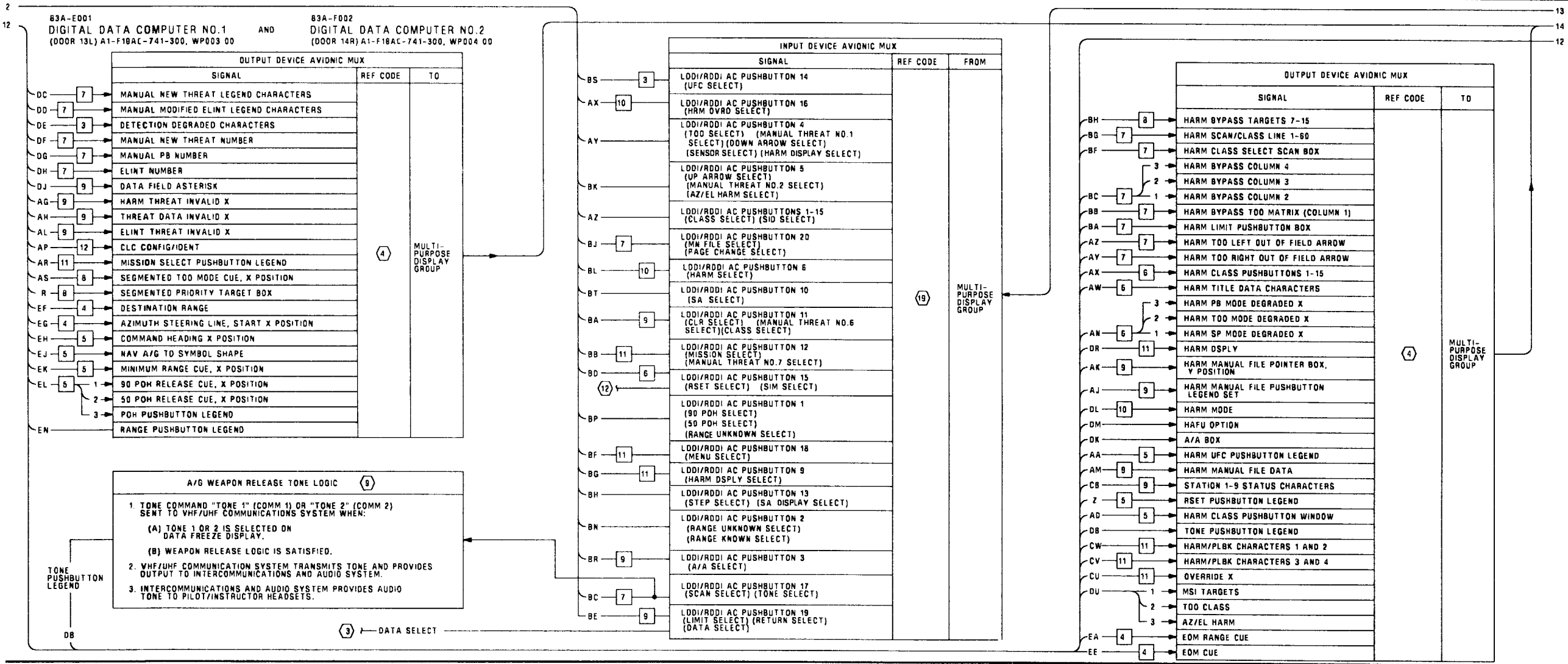


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 13)

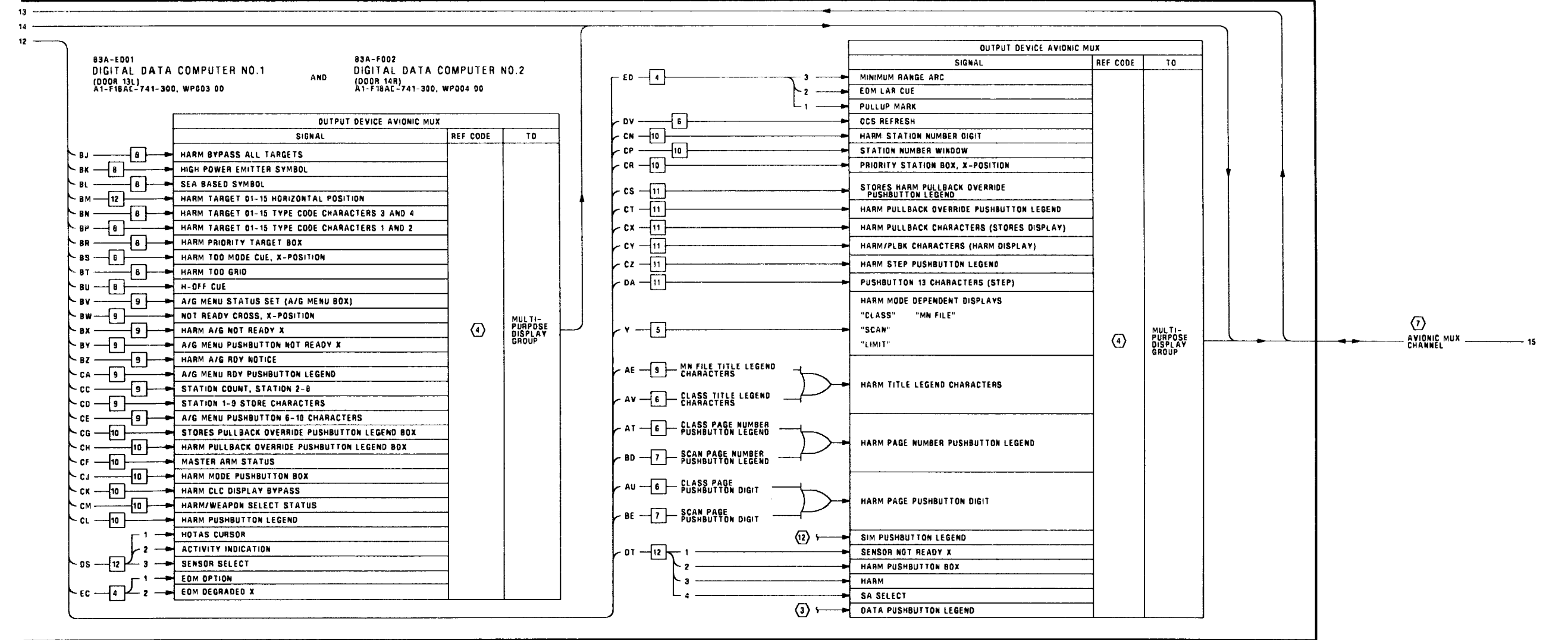


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 14)

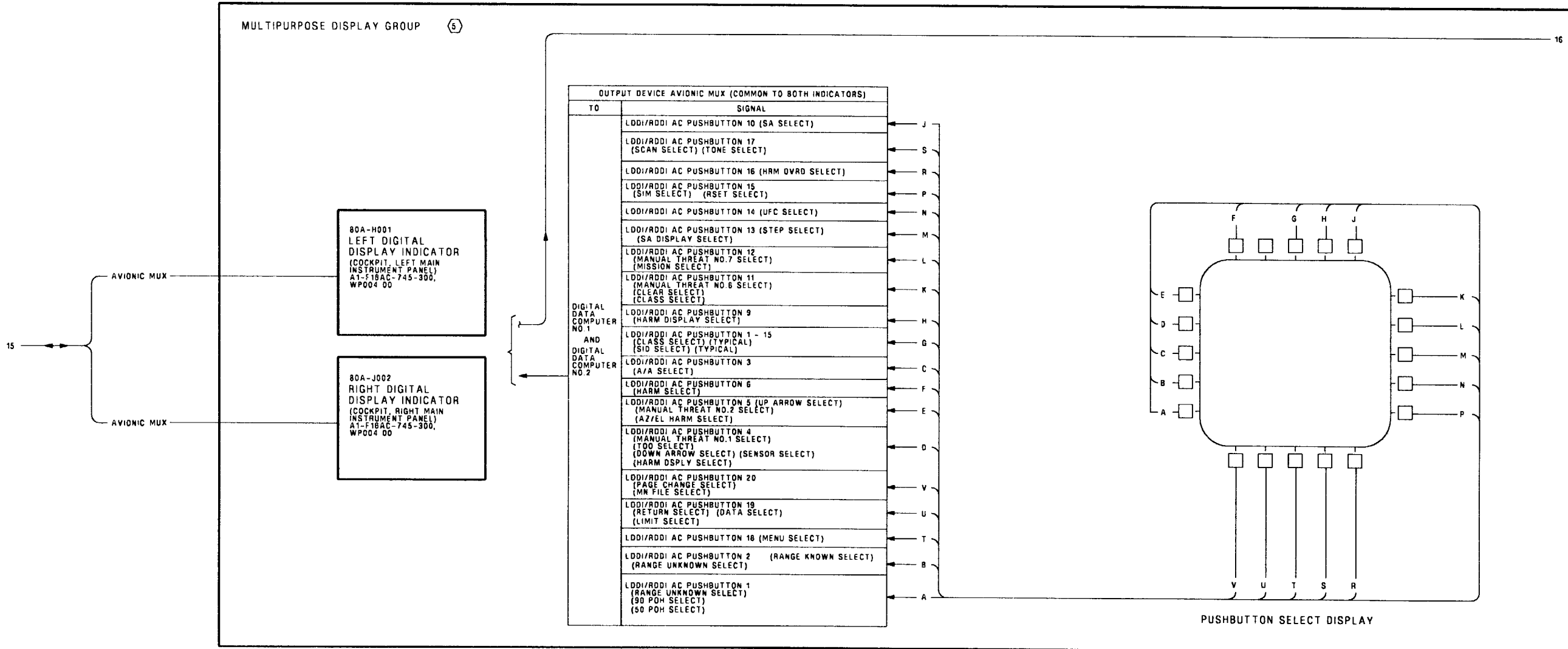


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 15)

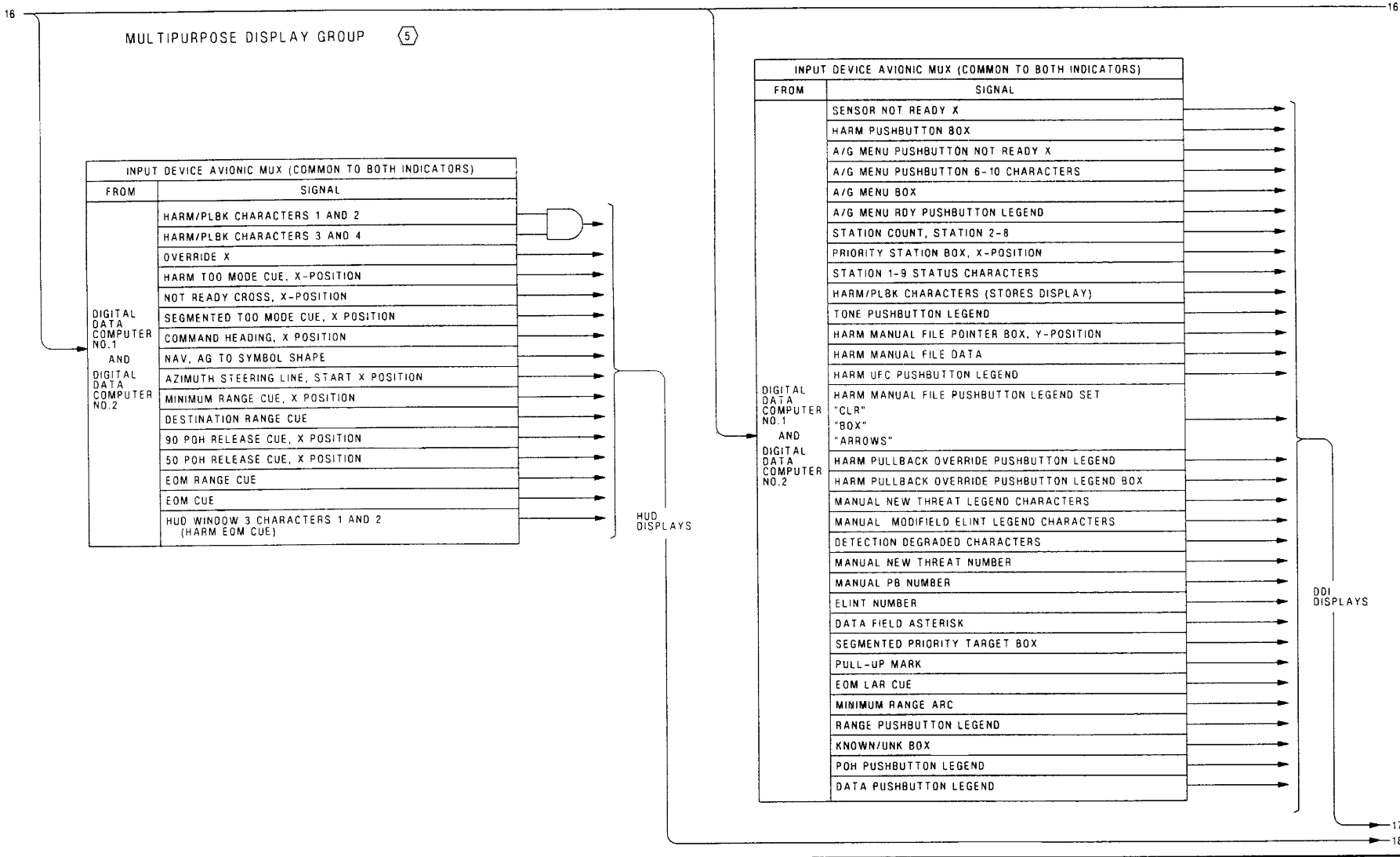


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 16)

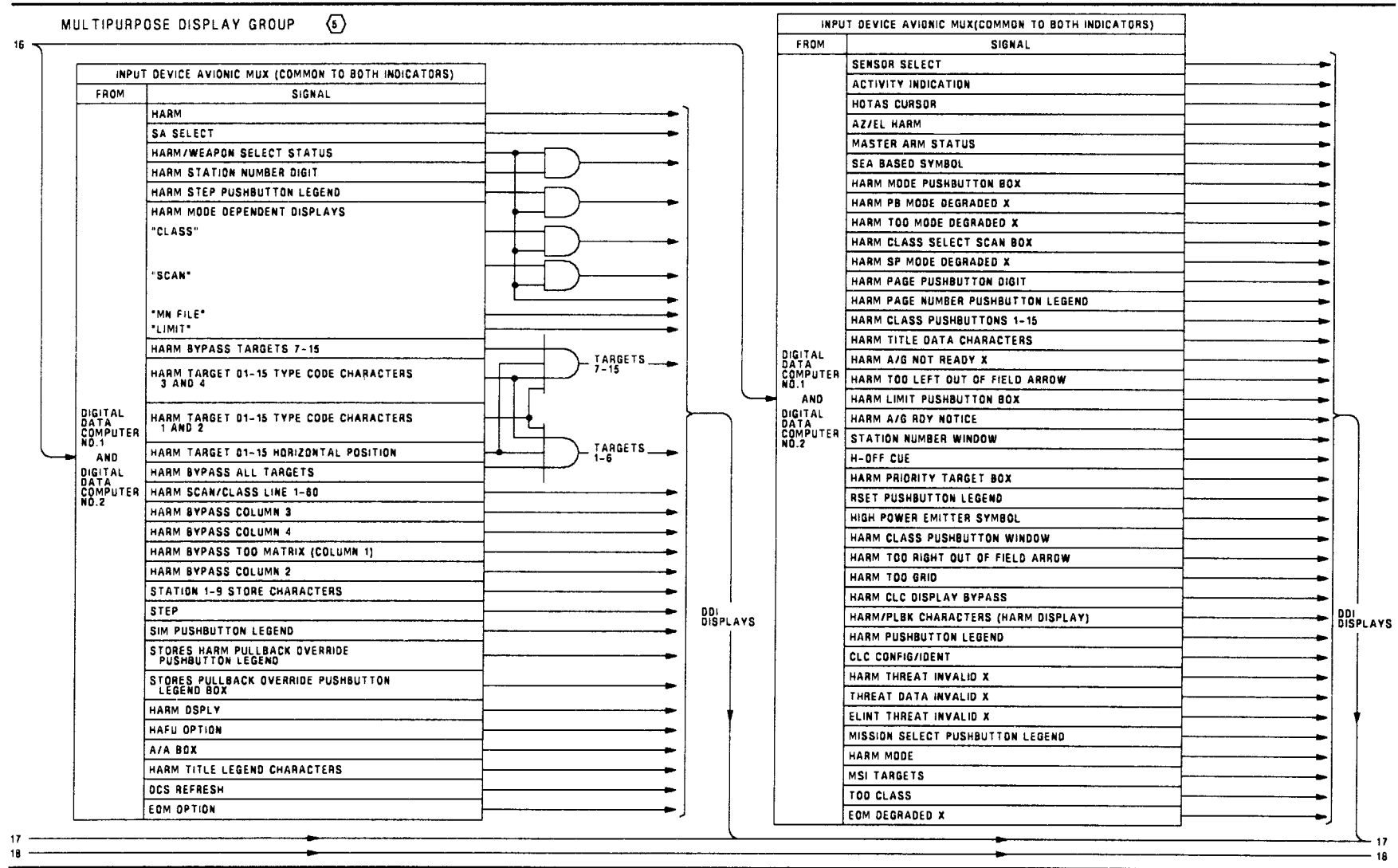


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 17)

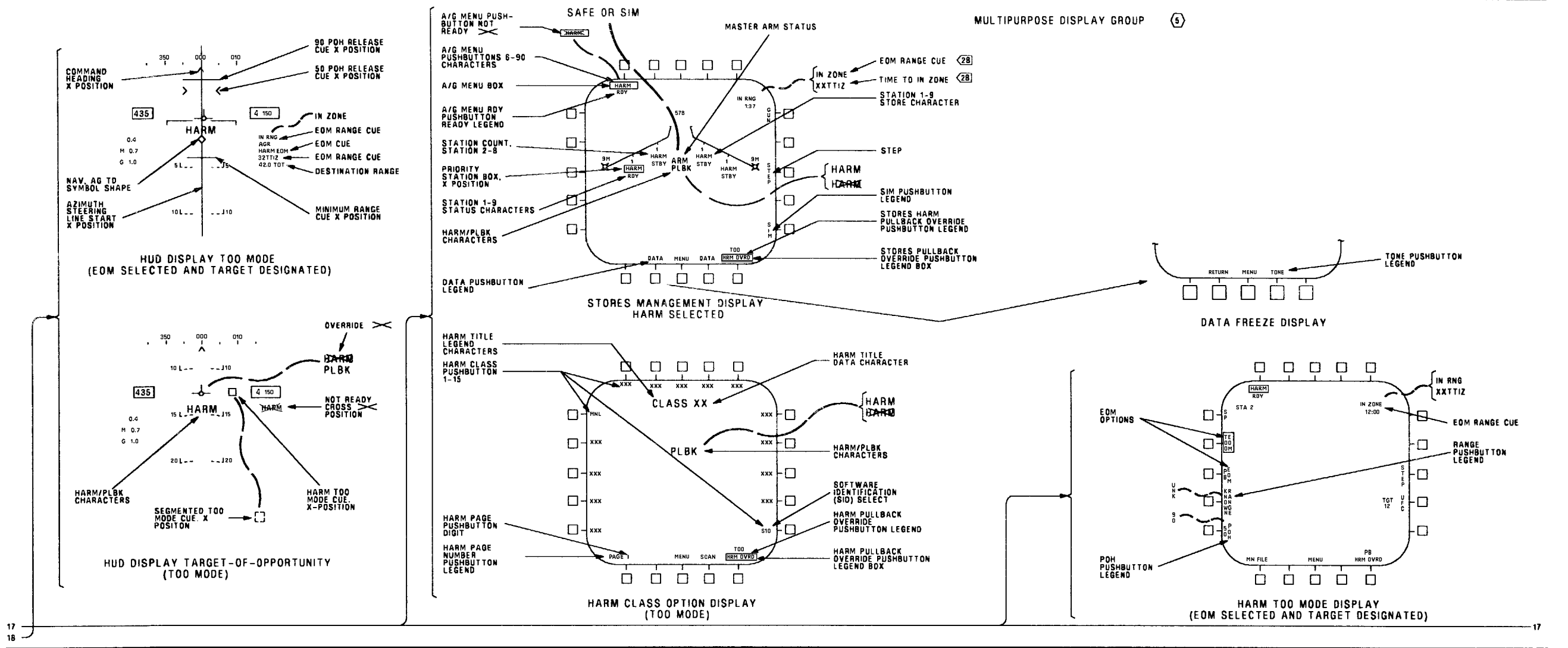


Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 18)



LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	A1-F18AC-745-500, WP010 00.
2.	CONTINUITY TEST: A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A(-)-WDM-000. B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY. C. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.	<div>9</div> AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.
		<div>10</div> BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
		<div>11</div> FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
		<div>12</div> SIMULATION MODE SELECT SCHEMATIC, WP022 00.
<div>3</div>	DATA FREEZE DISPLAY SCHEMATIC, WP076 00.	<div>13</div> CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.
<div>4</div>	DISPLAY REF CODES ARE NOT SHOWN: 1. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. 2. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. 3. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST: 163427 THRU 163782, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	<div>14</div> APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
		<div>15</div> BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.
		<div>16</div> AGM-88 HARM SELF-PROTECT (SP) MODE INTERFACE SCHEMATIC WP058 00.
		<div>17</div> STORES INVENTORY SCHEMATIC, WP015 00.
<div>5</div>	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC: A1-F18AC-745-500, WP004 00.	<div>18</div> MASTER ARM SCHEMATIC, WP017 00.
<div>6</div>	AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP056 00.	<div>19</div> IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION, TROUBLESHOOT USING DISPLAY TEST: 163427 THRU 163782, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
<div>7</div>	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	<div>20</div> MISSION DATA LOADER FUNCTIONAL SCHEMATIC, A1-F18AC-580-500, WP009 00.
<div>8</div>	MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTIONAL SCHEMATIC,	<div>21</div> SENSOR CONTROL SWITCH AND THROTTLE DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.

Figure 1.

Figure 1. AGM-88 HARM Target of Opportunity (TOO) Mode Interface Schematic (Sheet 21)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-88 HARM SELF PROTECT (SP) MODE INTERFACE

STORES MANAGEMENT SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

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F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows the mission computer system functions for the HARM Self-Protect mode. This schematic supplements the AGM-88 HARM Armament Computer/Command

Launch Computer Interface Schematic in WP056 00.

3. The location of the components on this schematic can be seen in WP008 00.

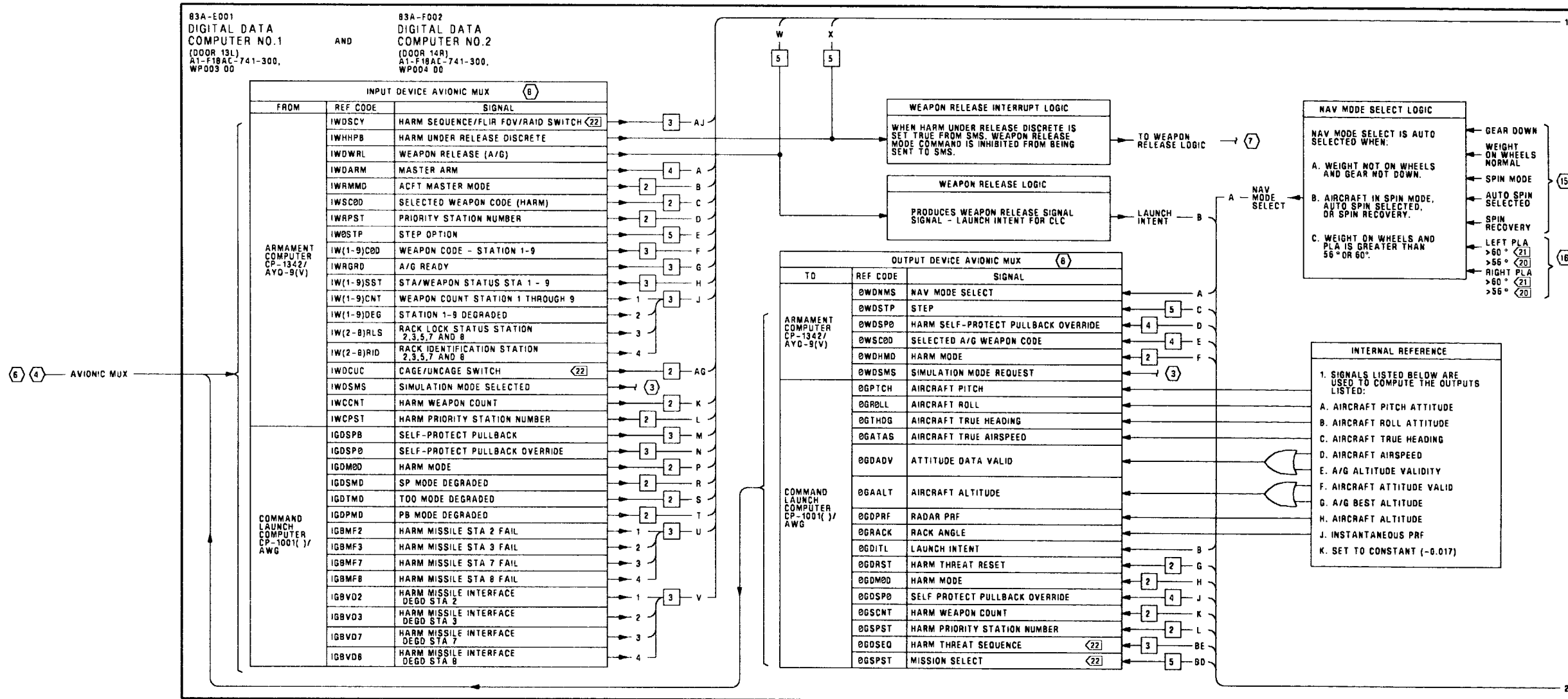


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 1)

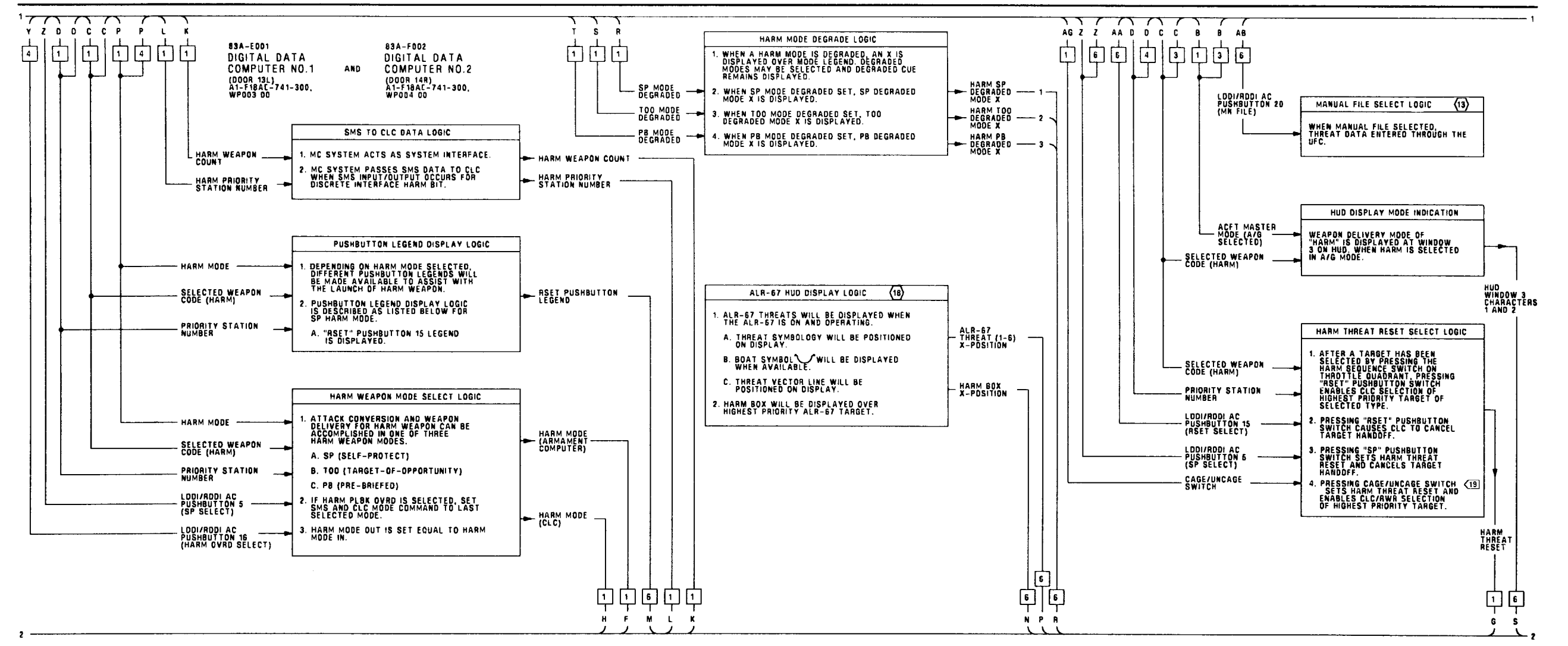


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 2)

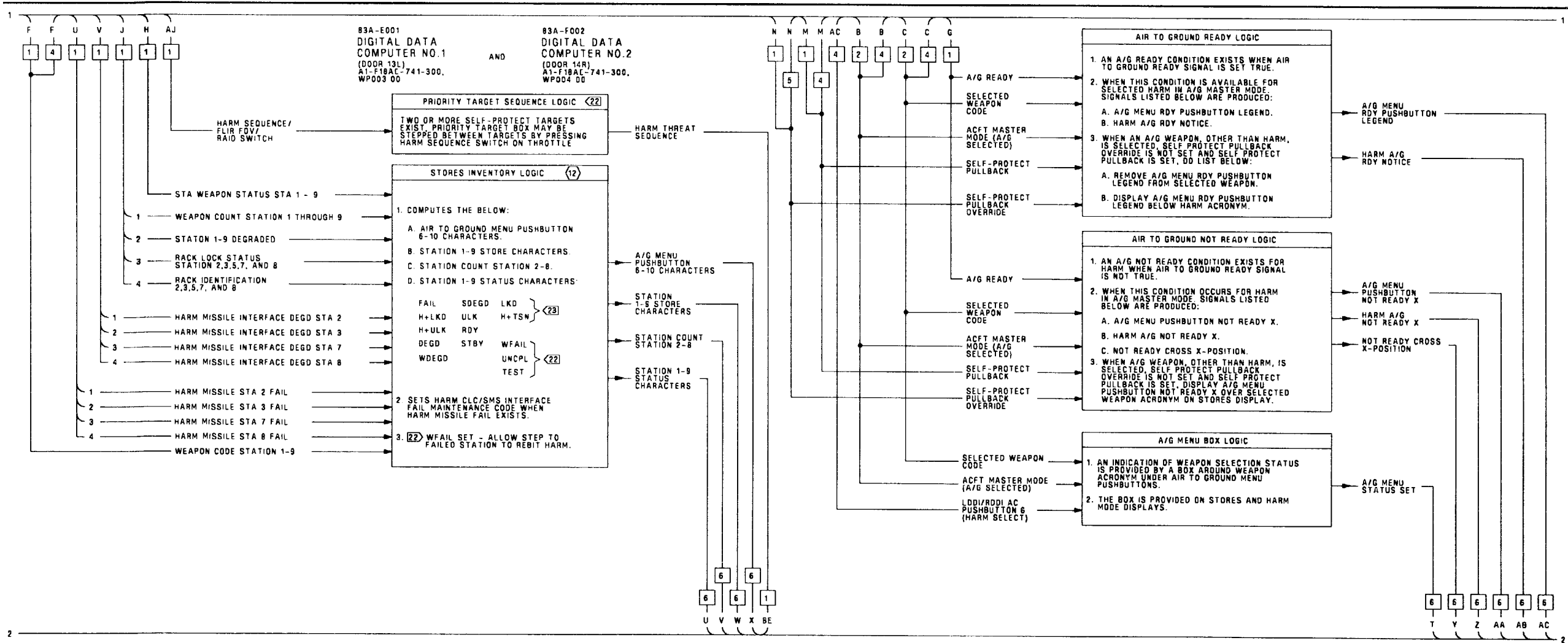


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 3)

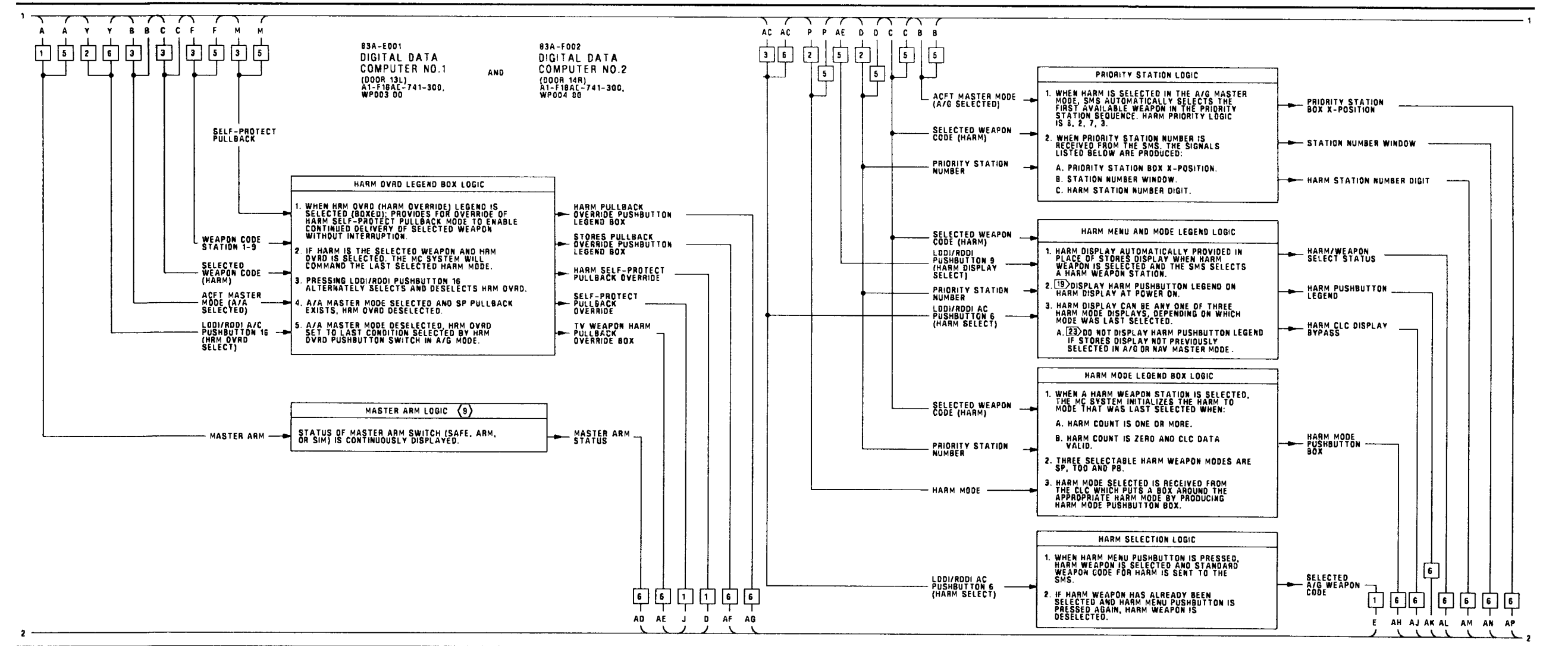


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 4)

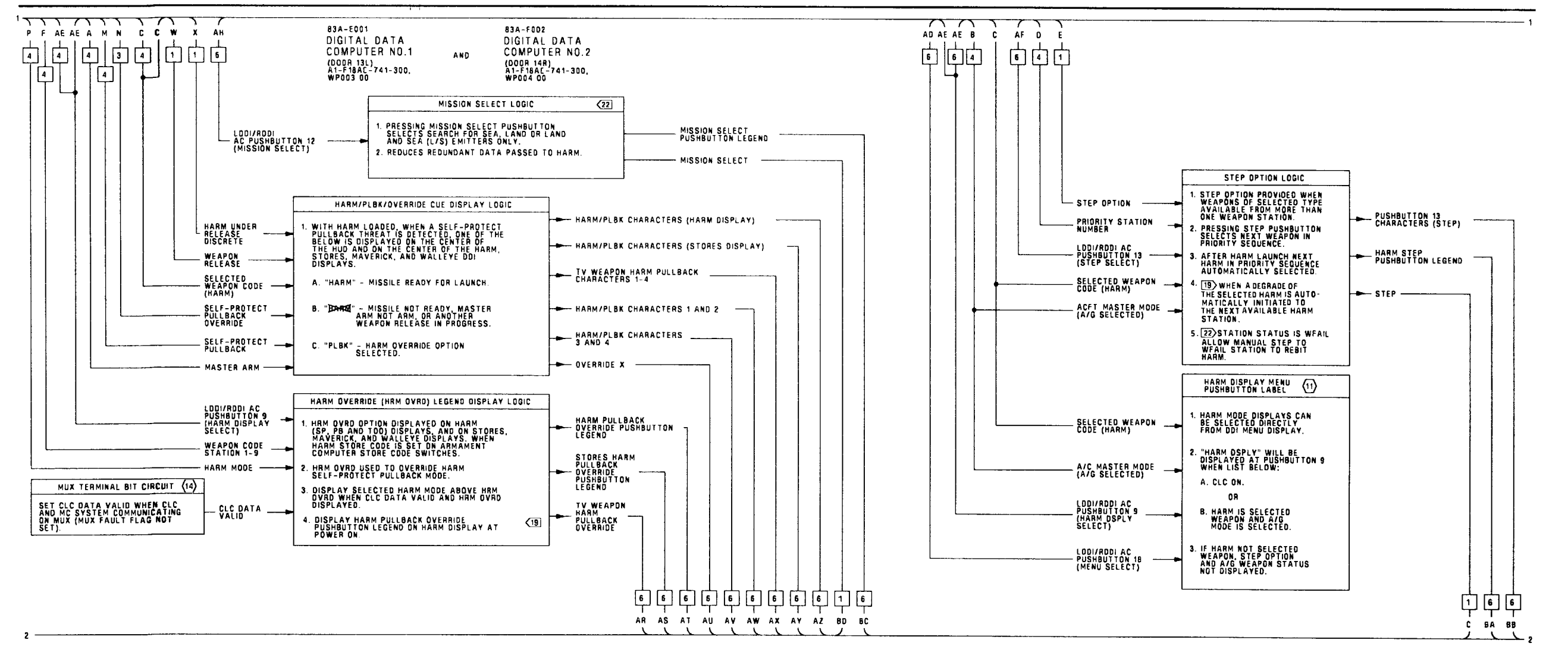


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 5)

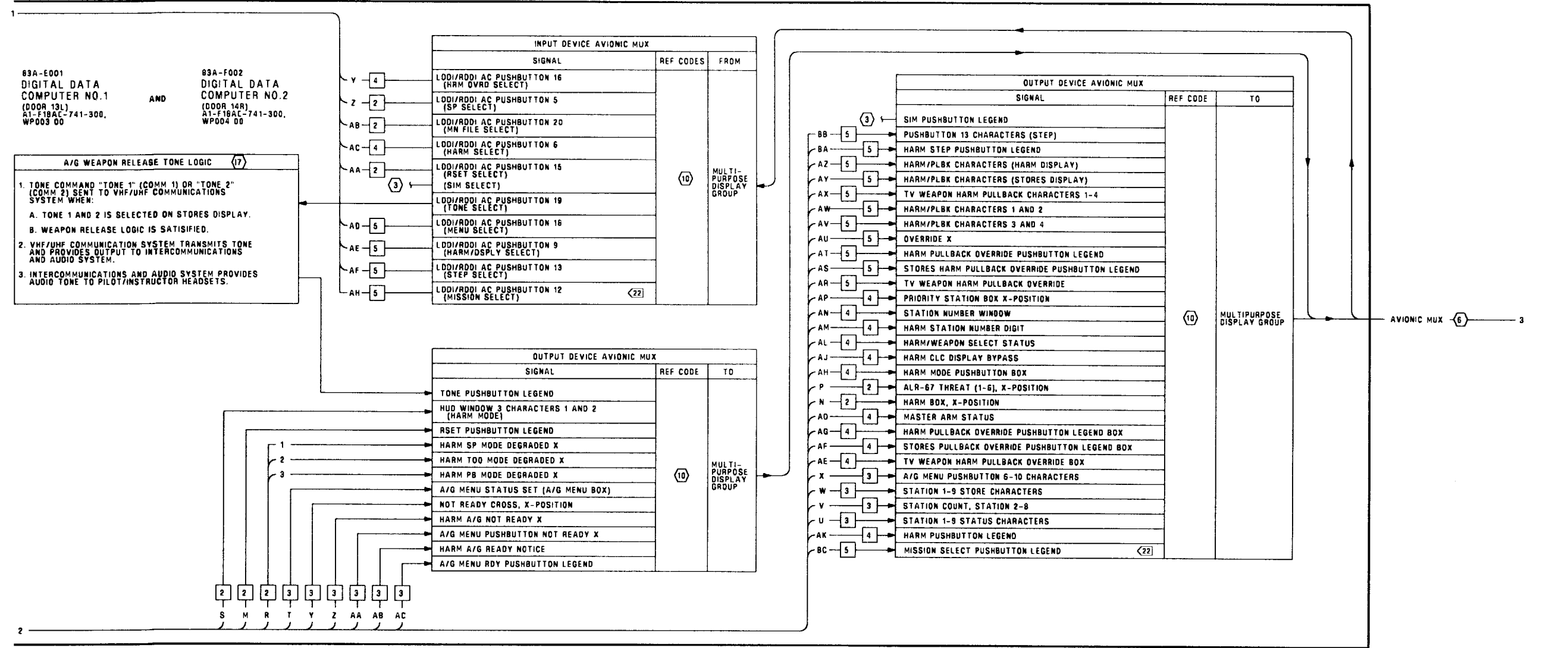


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 6)

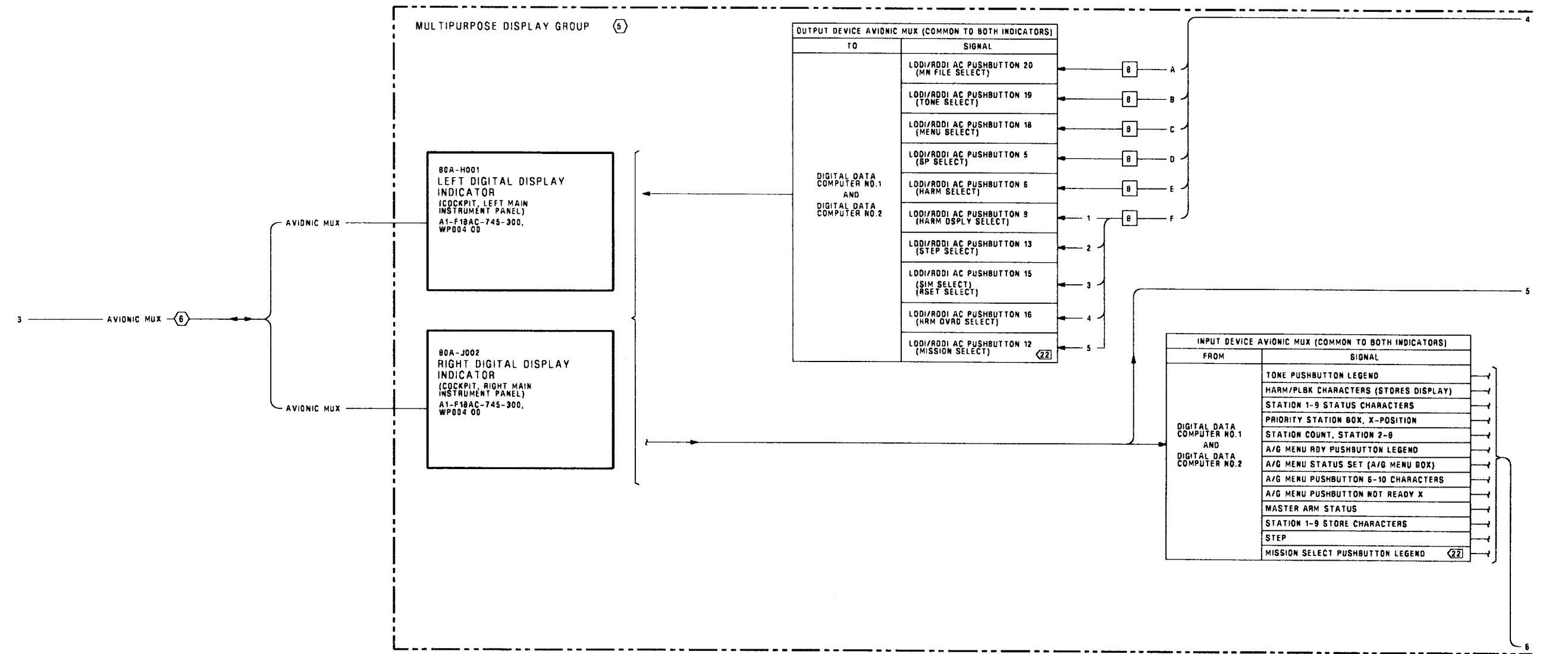


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 7)



Figure 1.

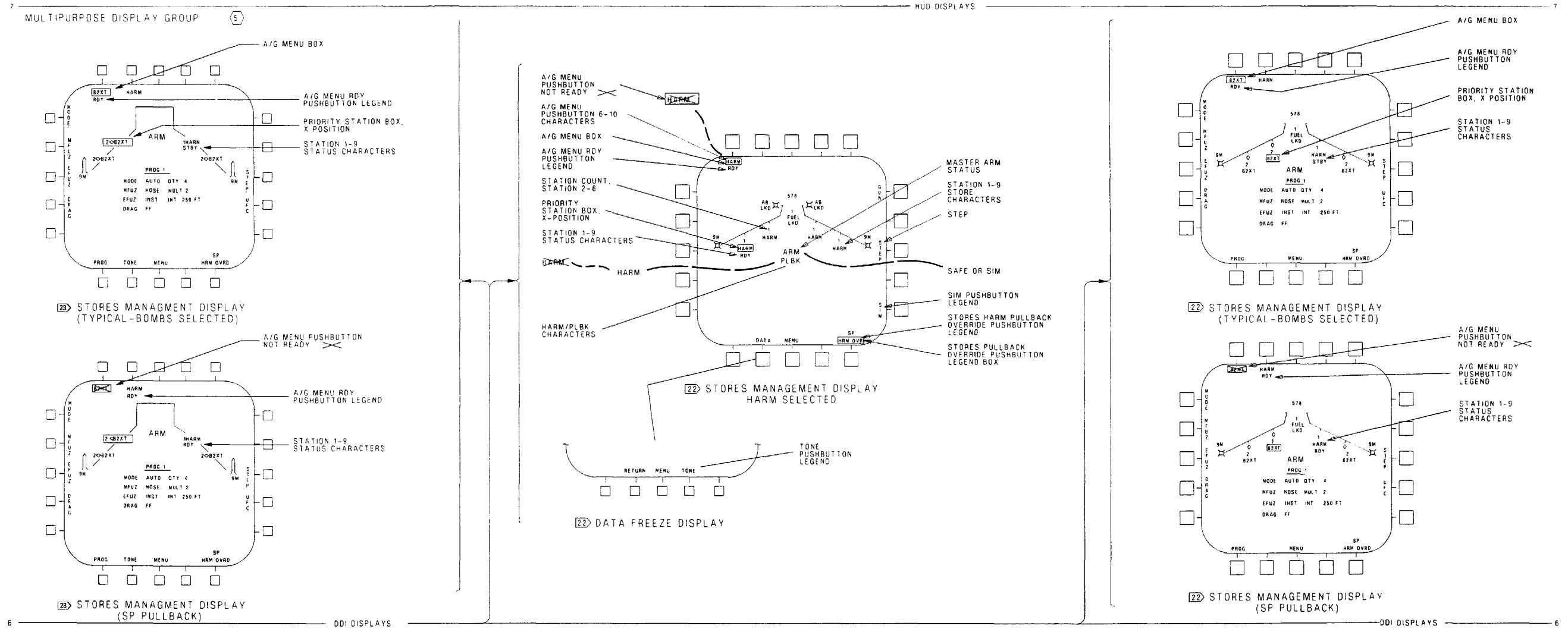


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 9)

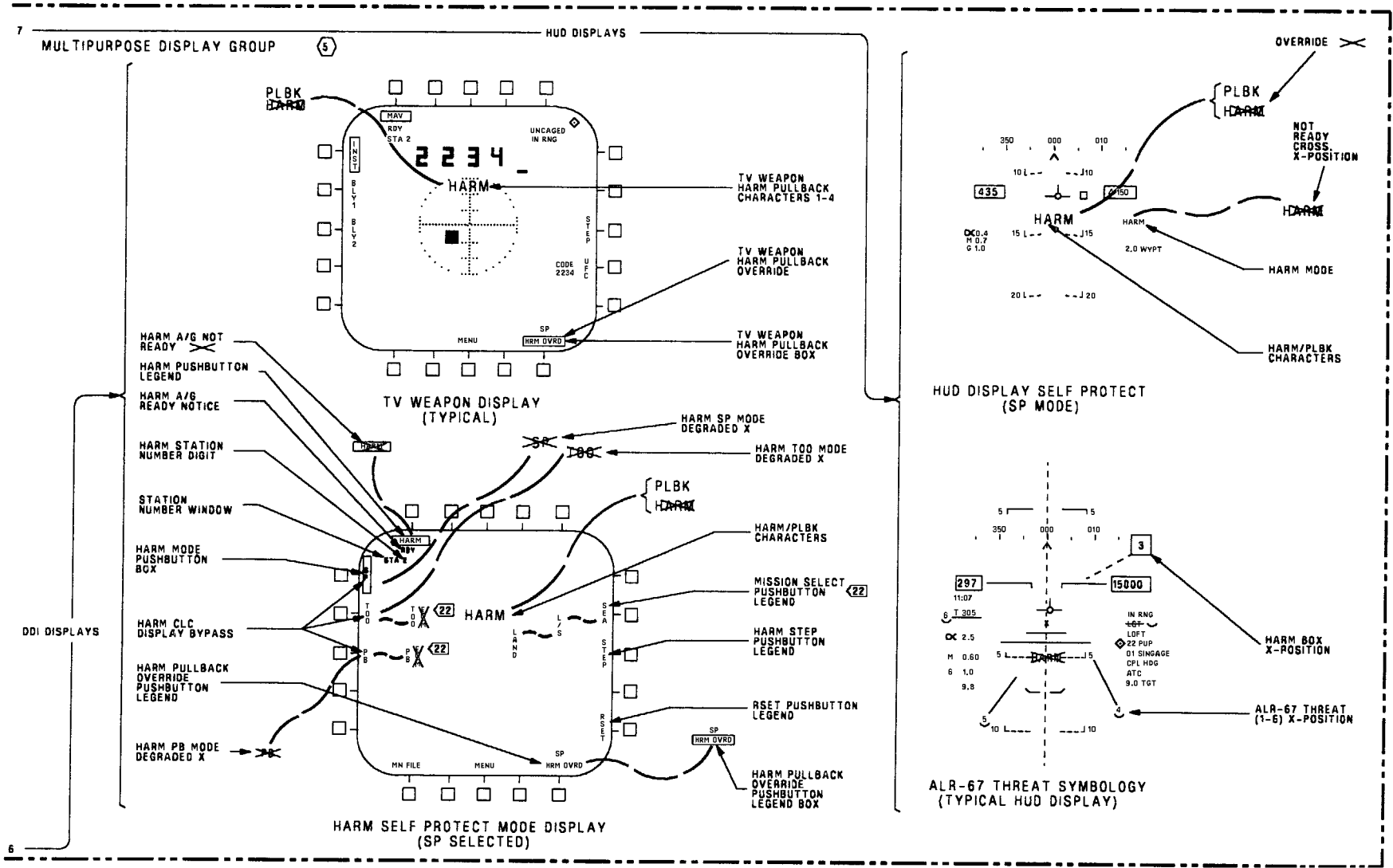


Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 10)

LEGEND

1.

NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2.

CONTINUITY TEST:

A.

ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.

B.

WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.

C.

WHEN TESTING CONTINUITY, TEST FOR:

(1)

SHORTS TO GROUND.

(2)

SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.

(3)

SHORTS BETWEEN SHIELD AND CONDUCTORS.

(4)

SHIELD CONTINUITY.
3.

SIMULATION MODE SELECT SCHEMATIC, WP022 00.
4.

AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP056 00.
5.

MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC:

A1-F18AC-745-500, WP004 00.
6.

SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
7.

BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.
8.

FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
9.

MASTER ARM SCHEMATIC, WP017 00.
10.

DISPLAY REF CODES ARE NOT SHOWN:

1.

IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR.
11.

IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00.
12.

IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAYS TEST: 163427 THRU 163782, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
11.

MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP010 00.
12.

STORES INVENTORY SCHEMATIC, WP015 00.
13.

AGM-88 HARM TARGET OF OPPORTUNITY (TOO) MODE INTERFACE SCHEMATIC WP057 00.
14.

BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
15.

CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.
16.

APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
17.

AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.
18.

CONTROLS, DISPLAYS AND AUDIO SCHEMATIC, A1-F18AC-760-500, WP015 00.
19.

WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 89A AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT NO. 89A AND UP (A1-F18AC-SCM-000).
20.

161353 THRU 161528.
21.

161702 AND UP.
22.

162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.
23.

162394 THRU 163175 BEFORE F/A-18 AFC 253 OR AFC 292.

Figure 1.

Figure 1. AGM-88 HARM Self Protect (SP) Mode Interface Schematic (Sheet 11)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - AGM-88 HARM PRE-BRIEFED (PB) MODE INTERFACE

STORES MANAGEMENT SYSTEM

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None

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F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. INTRODUCTION.

2. The schematic in this work package shows the mission computer system functions for the HARM Pre-Briefed mode. This schematic supplements the

AGM-88 HARM Armament Computer/Command Launch Computer Interface Schematic in WP056 00.

3. The location of the components on this schematic can be seen in WP008 00.

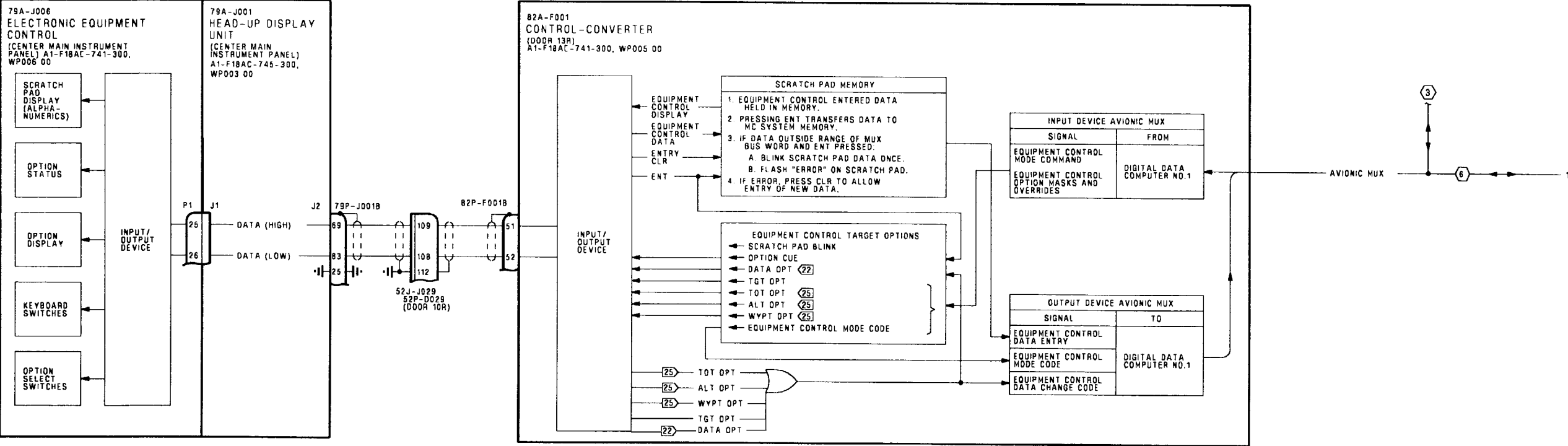


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 1)

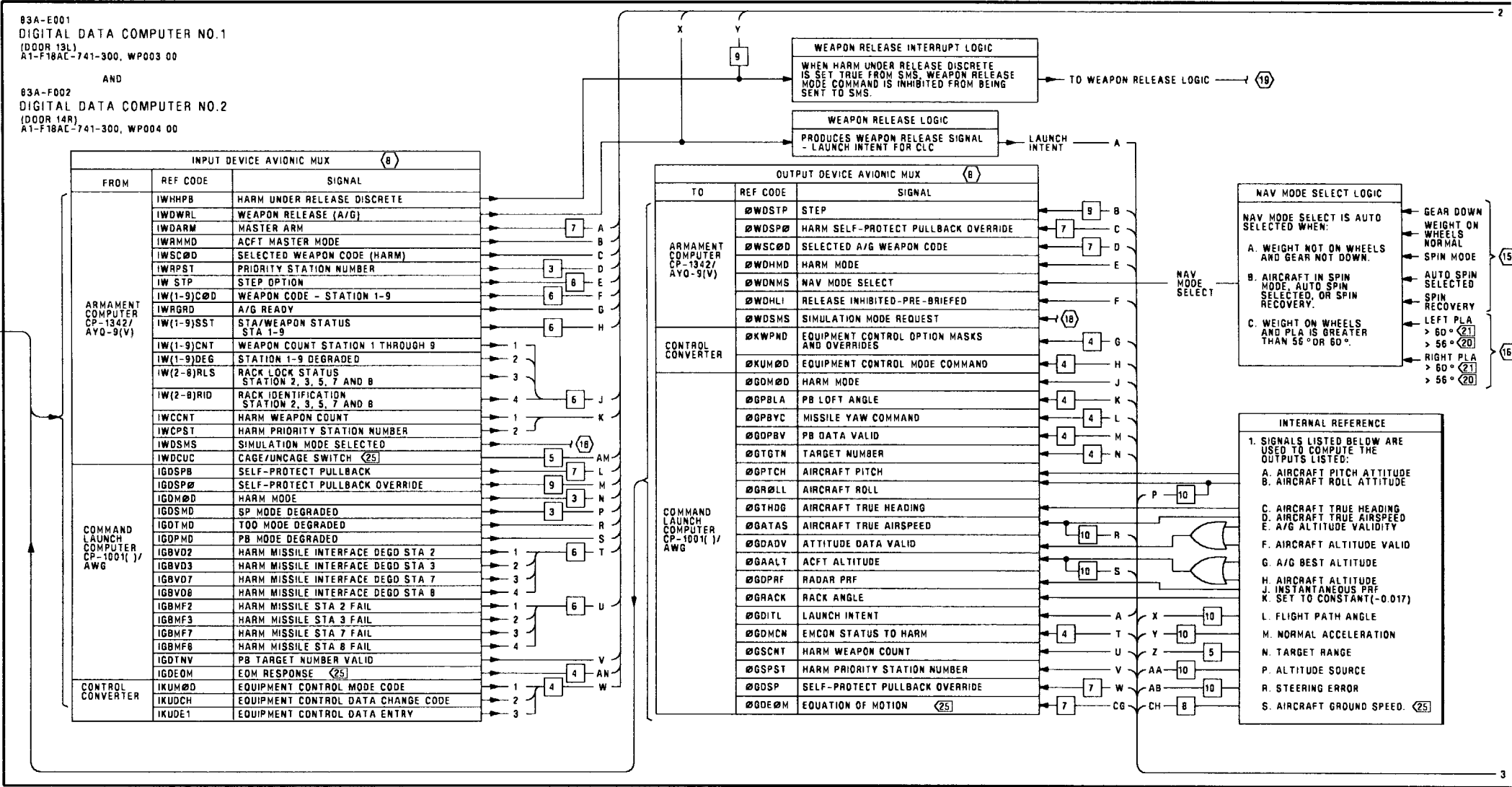


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 2)

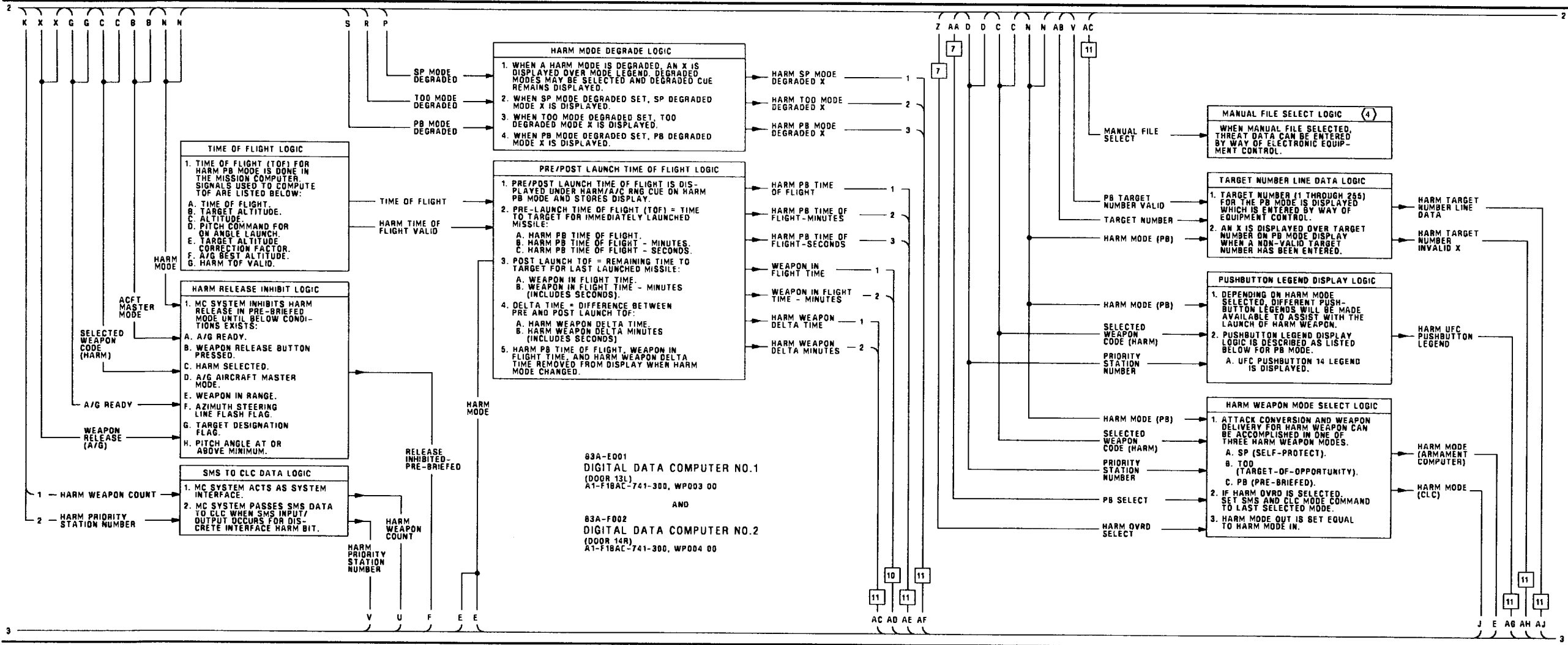


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 3)

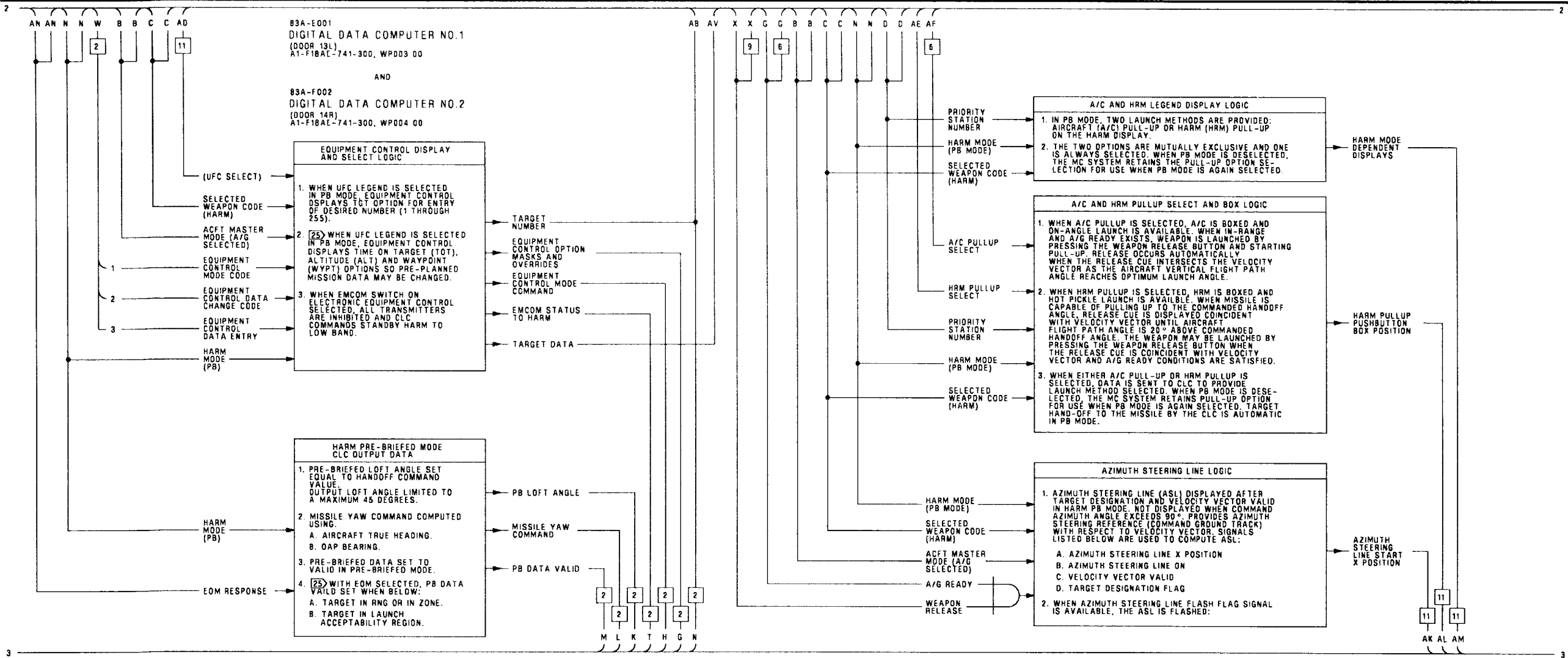


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 4)

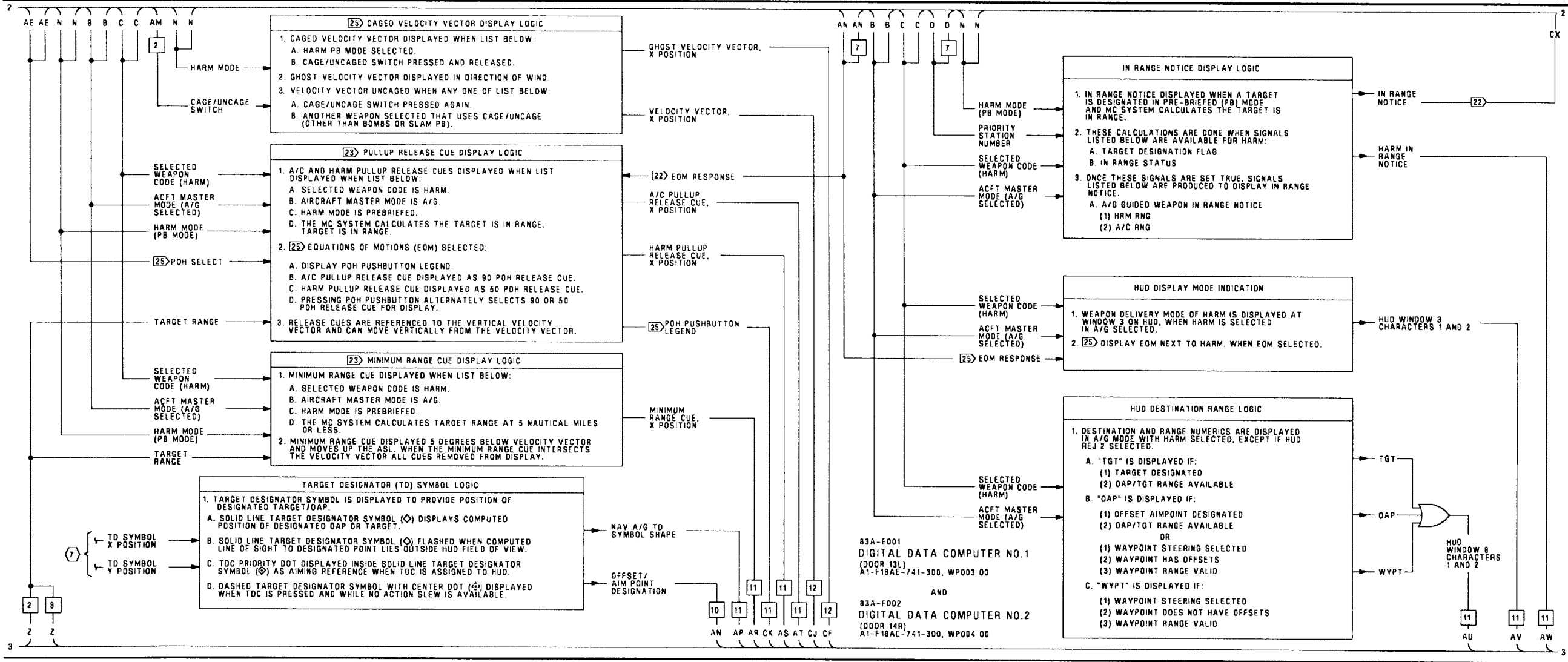


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 5)

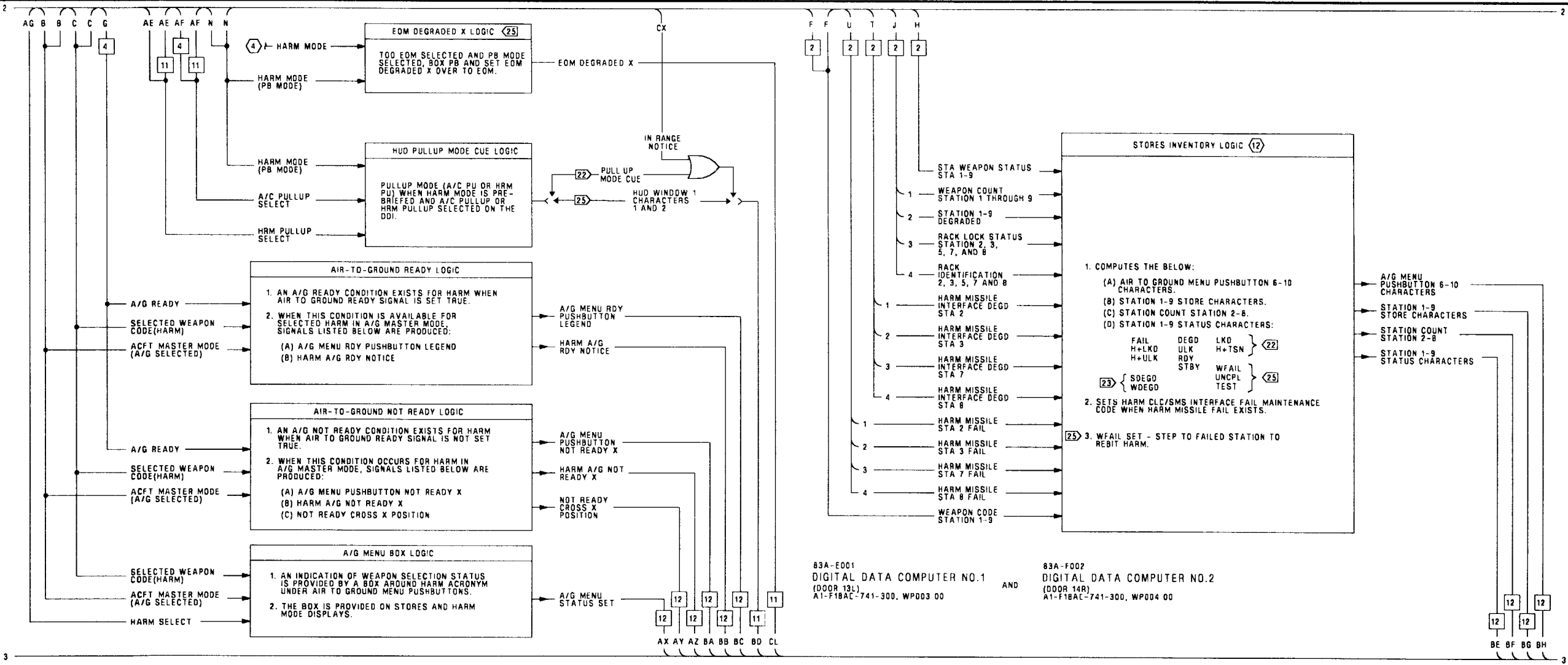
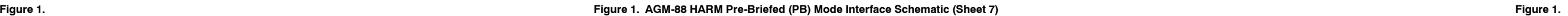


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 6)



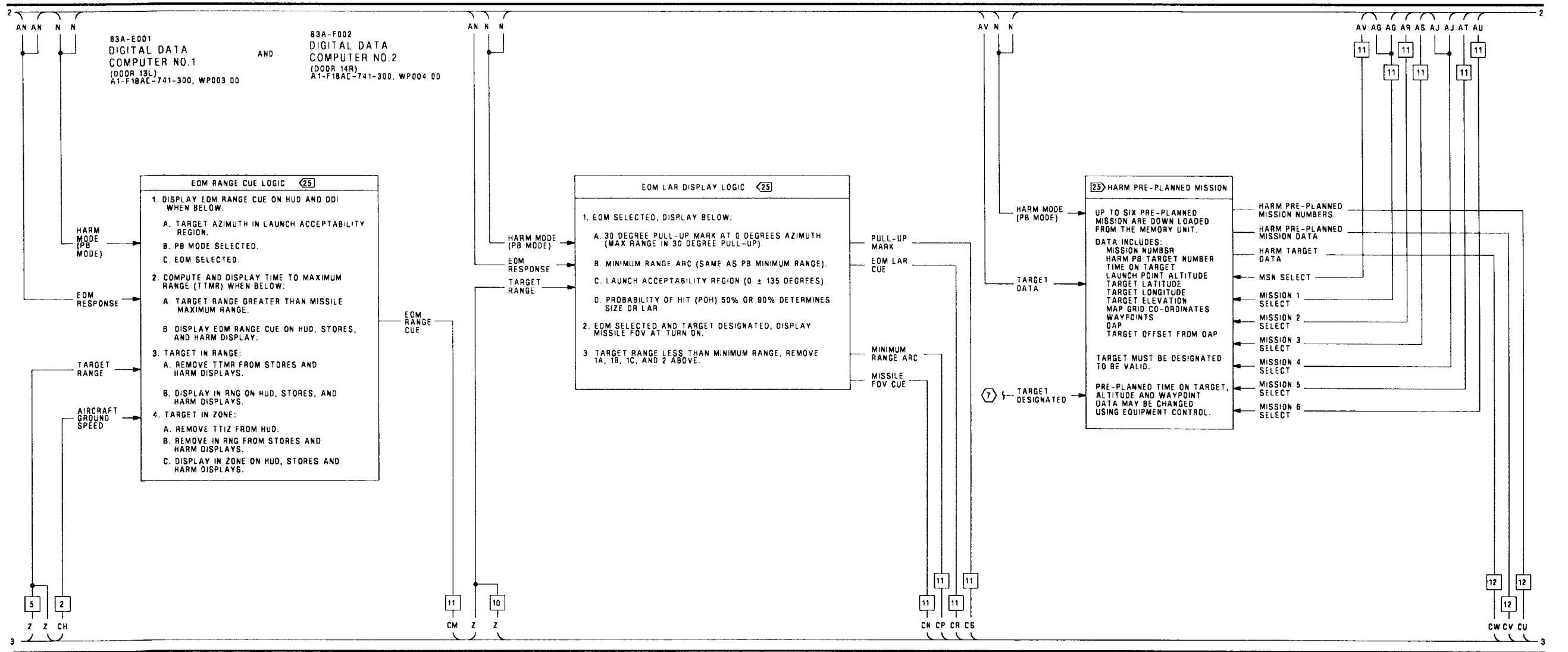


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 8)

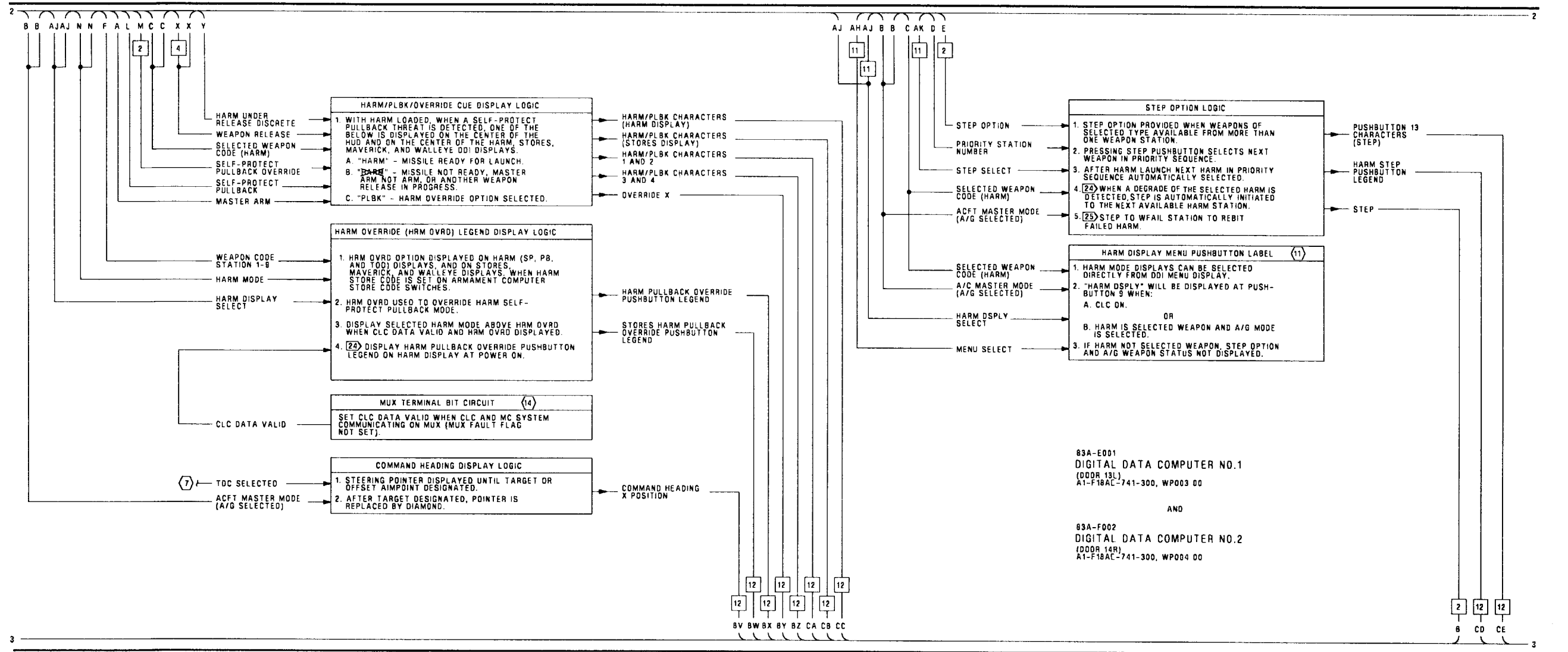


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 9)

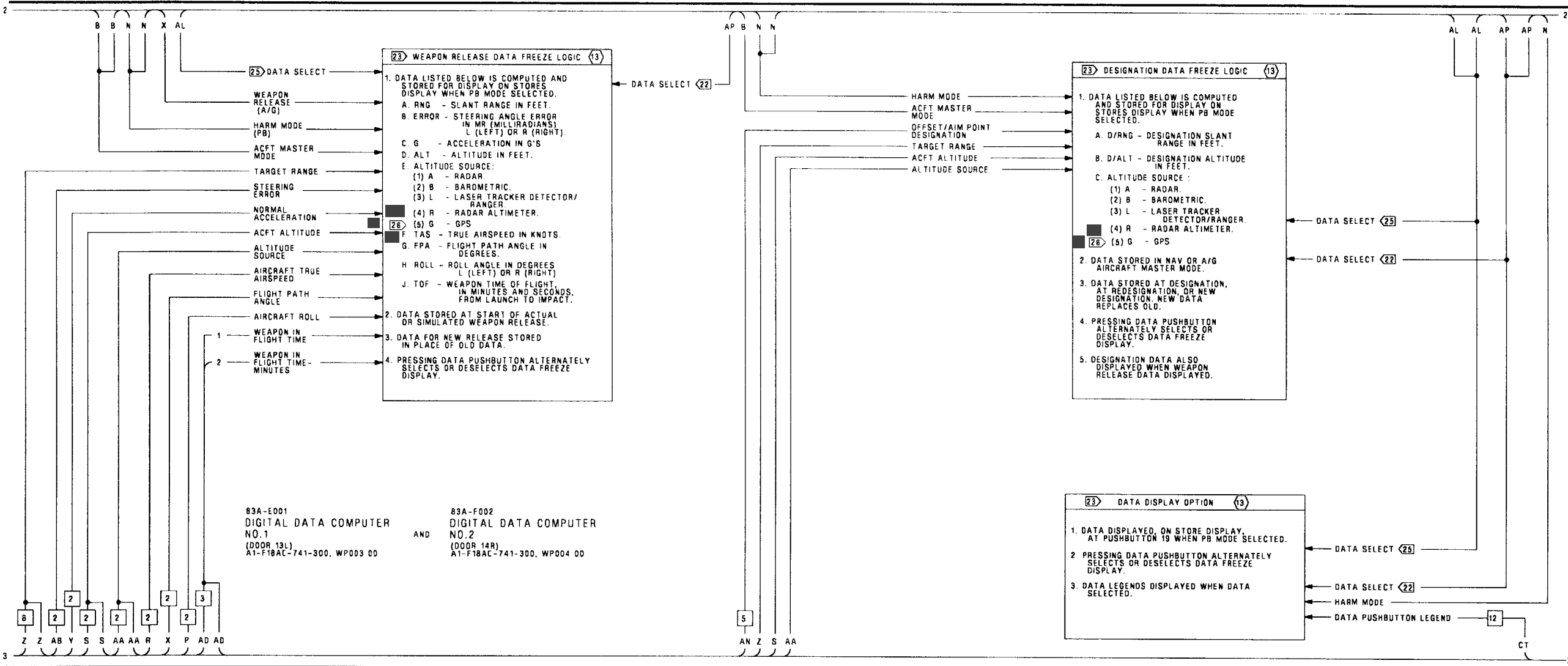
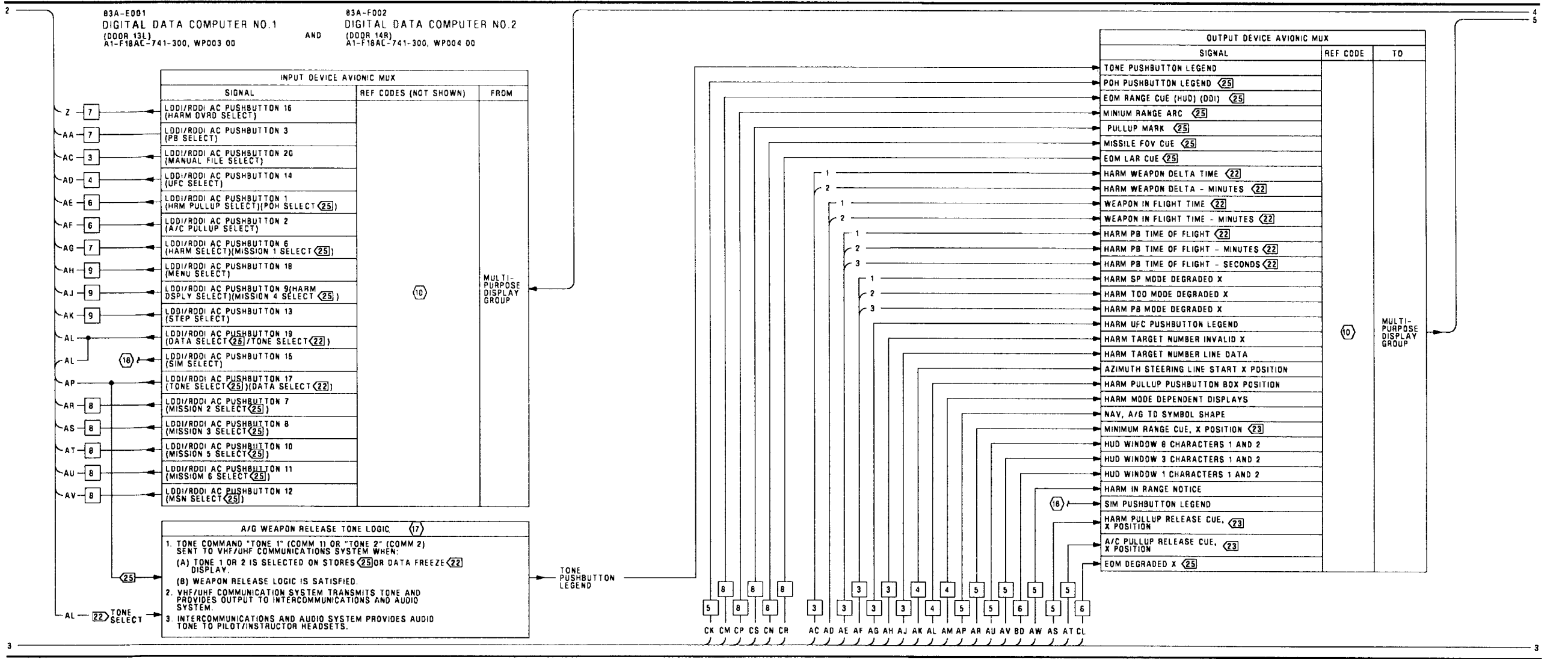


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 10)



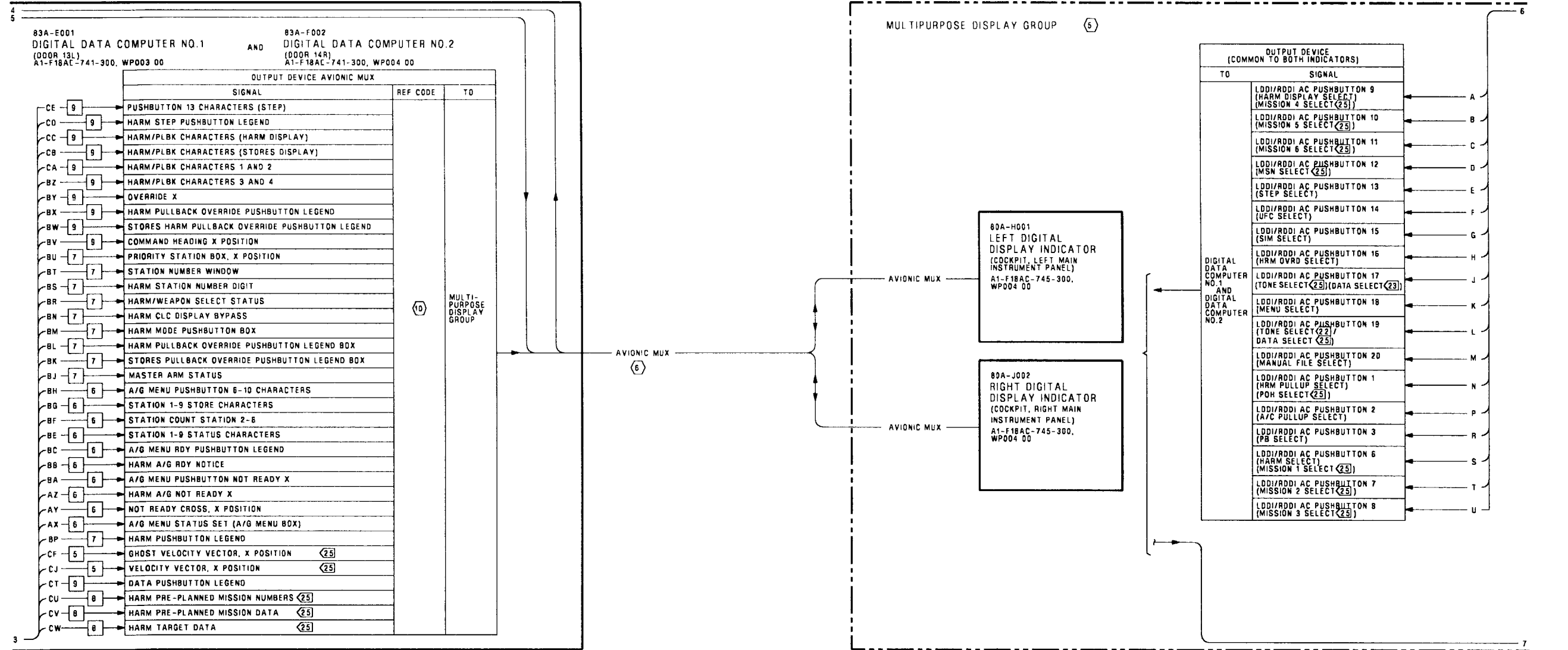


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 12)

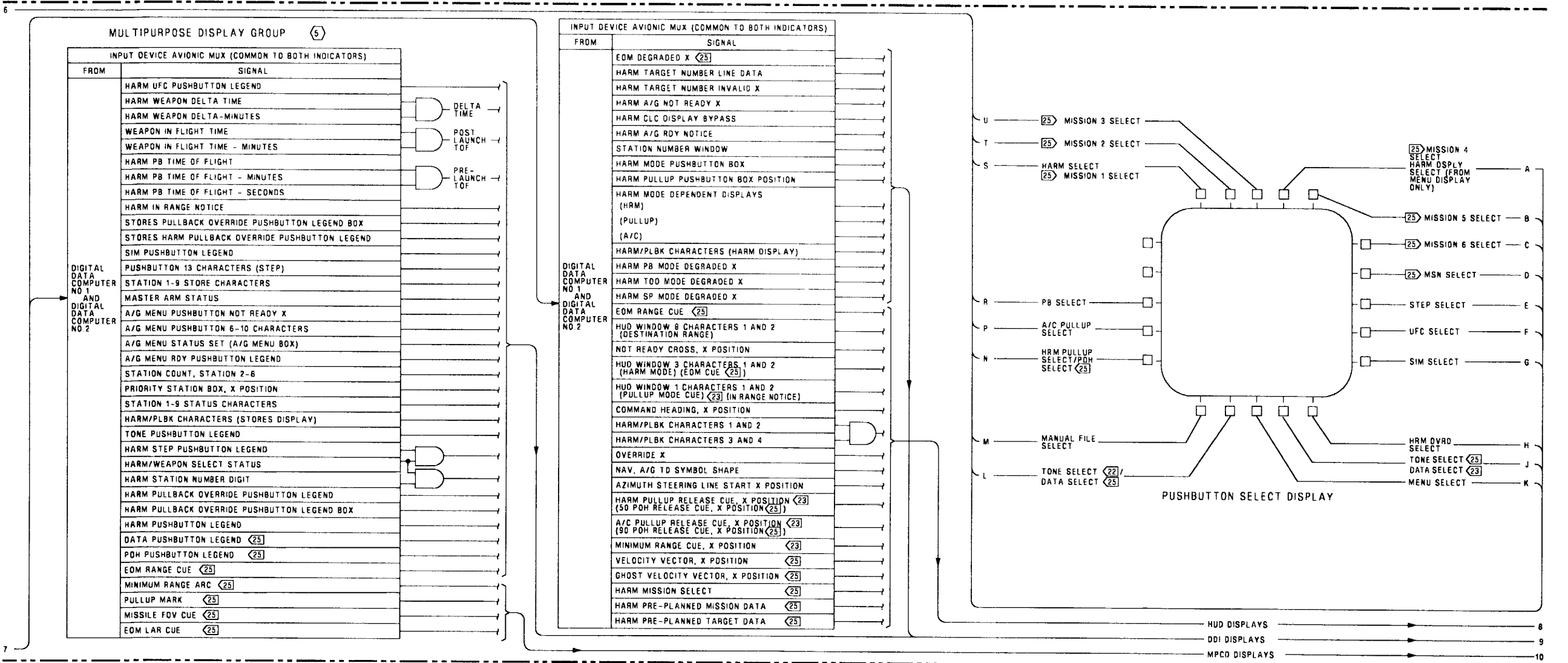
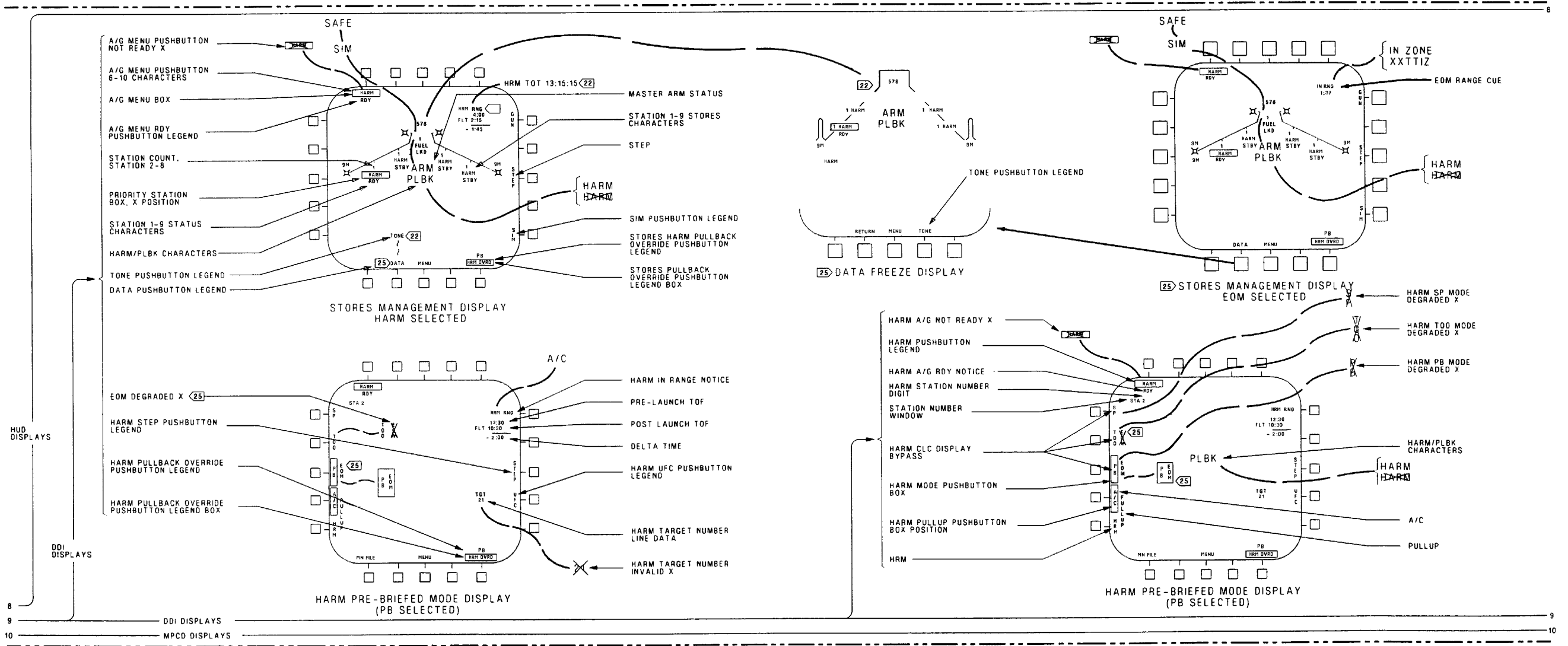


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 13)

05900113
Figure 1.



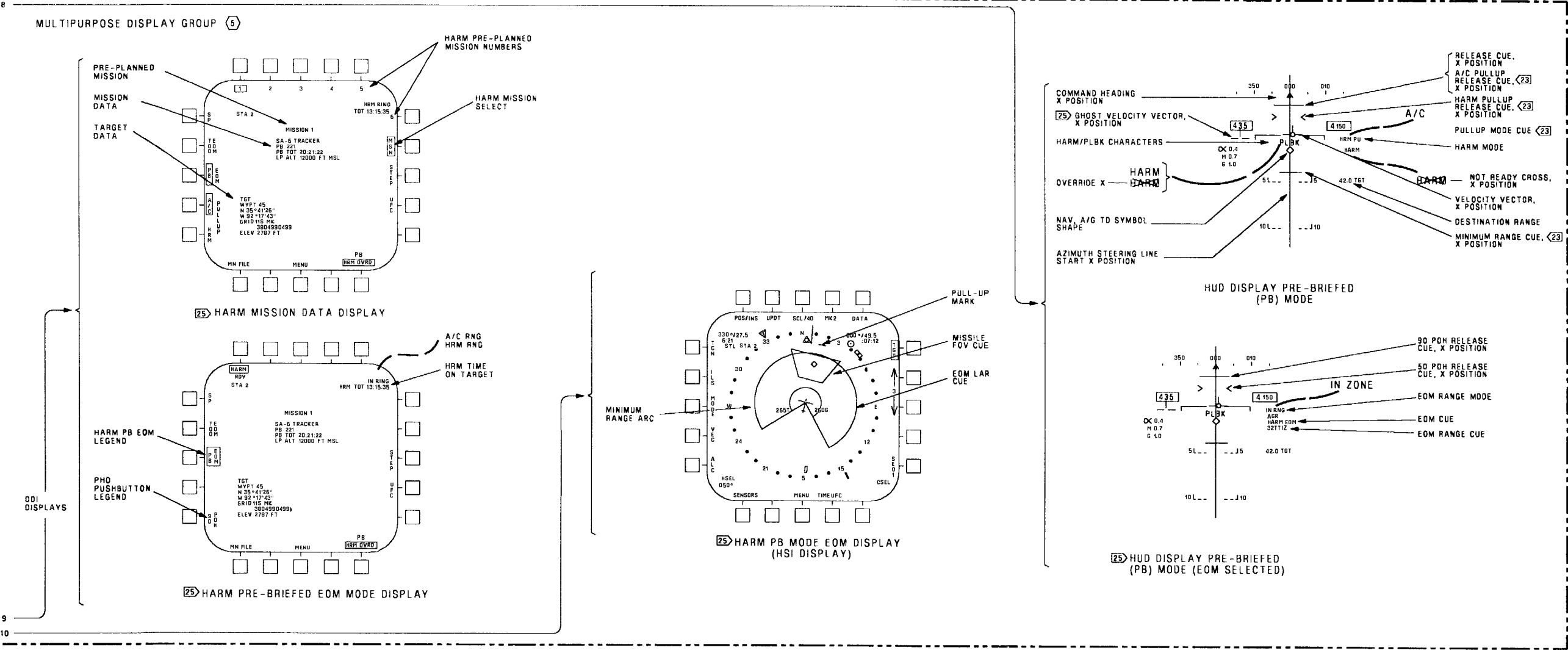


Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 15)

LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST:	
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	11
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	12
	C. WHEN TESTING CONTINUITY, TEST FOR:	13
	(1) SHORTS TO GROUND.	14
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	15
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	16
	(4) SHIELD CONTINUITY.	17
3	AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP056 00.	18
4	AGM-88 HARM TARGET OF OPPORTUNITY (TOO) MODE INTERFACE SCHEMATIC, WP057 00.	19
5	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.	20
6	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	21
7	SENSOR CONTROL SWITCH AND THROTTLE DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.	22
8	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.	23
9	MASTER ARM SCHEMATIC, WP017 00.	24
10	DISPLAY REF CODES ARE NOT SHOWN:	25
	1. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR.	26
	2. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00.	
	3. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAYS TEST: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	
		MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP010 00.
		STORES INVENTORY SCHEMATIC, WP015 00.
		DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
		BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
		CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.
		APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP029 00.
		AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.
		SIMULATION MODE SELECT SCHEMATIC, WP022 00.
		BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.
		161353 THRU 161528.
		161702 AND UP.
		162394 THRU 163175 BEFORE F/A-18 AFC 253 OR AFC 292.
		WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER NO. 1 AND NO. 2 CONFIG/IDENT NO. 87X AND UP (A1-F18AC-SCM-000).
		WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT NO. 89A AND UP AND DIGITAL DATA COMPUTER NO. 1 AND NO. 2 CONFIG/IDENT NO. 89A AND UP (A1-F18AC-SCM-000).
		162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.
		AFTER F/A-18 AFC 231.

Figure 1.

Figure 1. AGM-88 HARM Pre-Briefed (PB) Mode Interface Schematic (Sheet 16)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 BOMB/MINE

STORES MANAGEMENT SYSTEM

Reference Material

None

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F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows the system functions for release of bombs/mines from the Aircraft Bomb Ejector Rack BRU-32 (), Aircraft Bomb Ejector Rack BRU (), and Multiple

Ejector Rack (MER) when loaded on weapon station 2, 3, 7 or 8.

3. The location of the components on this schematic can be seen in WP008 00.

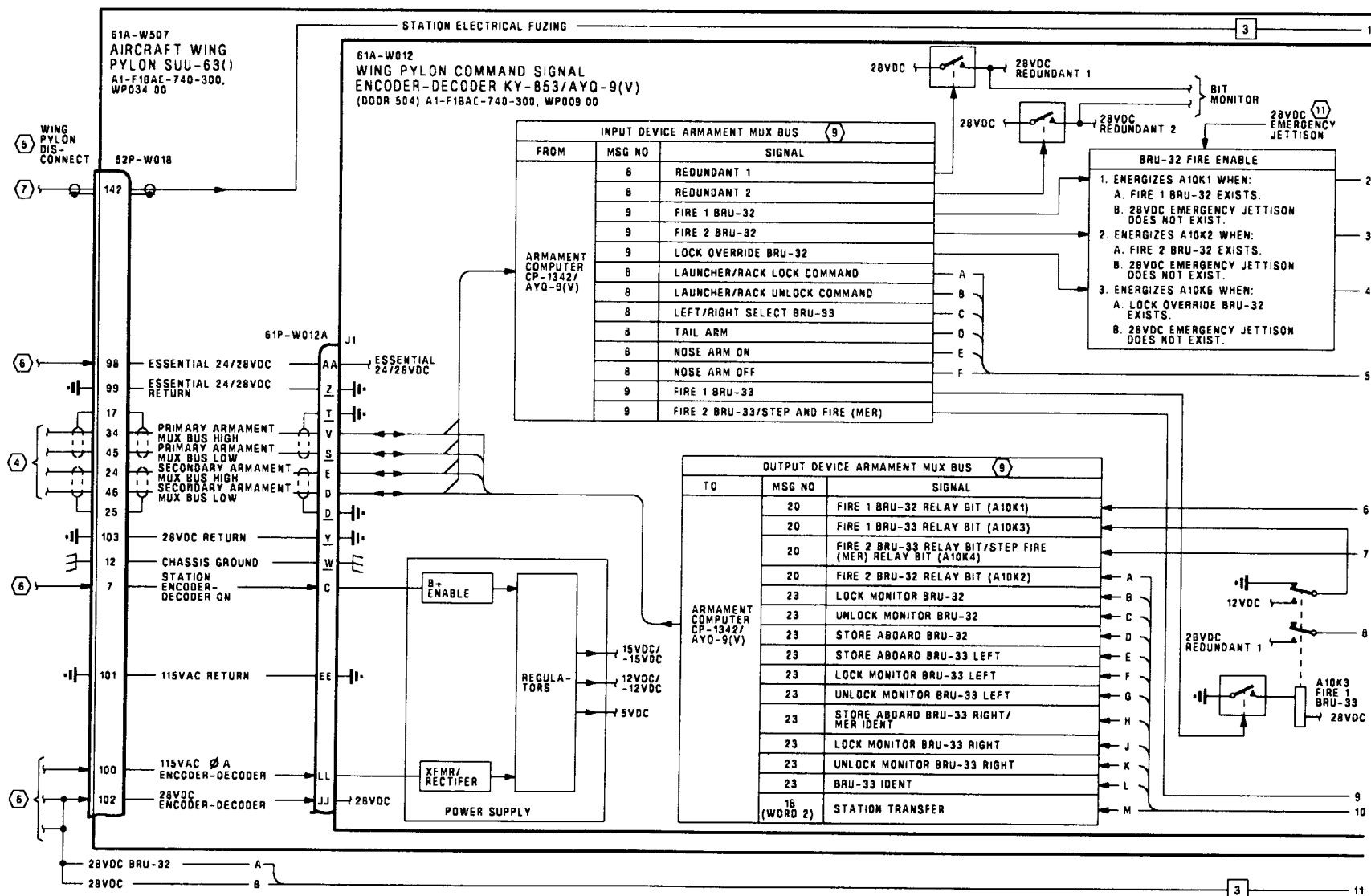


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 Bomb/Mine Schematic (Sheet 1)

Figure 1.

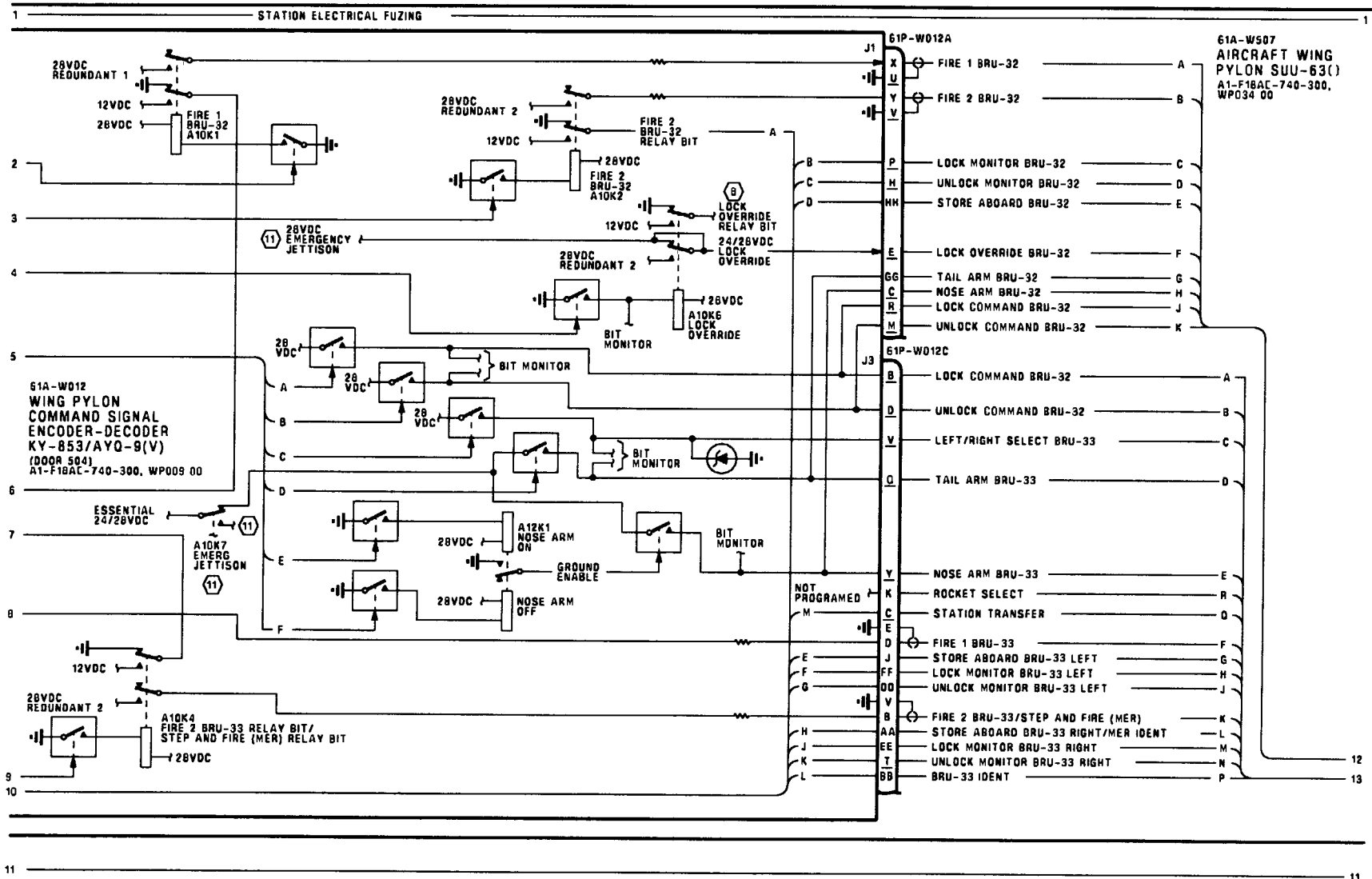


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 Bomb/Mine Schematic (Sheet 2)

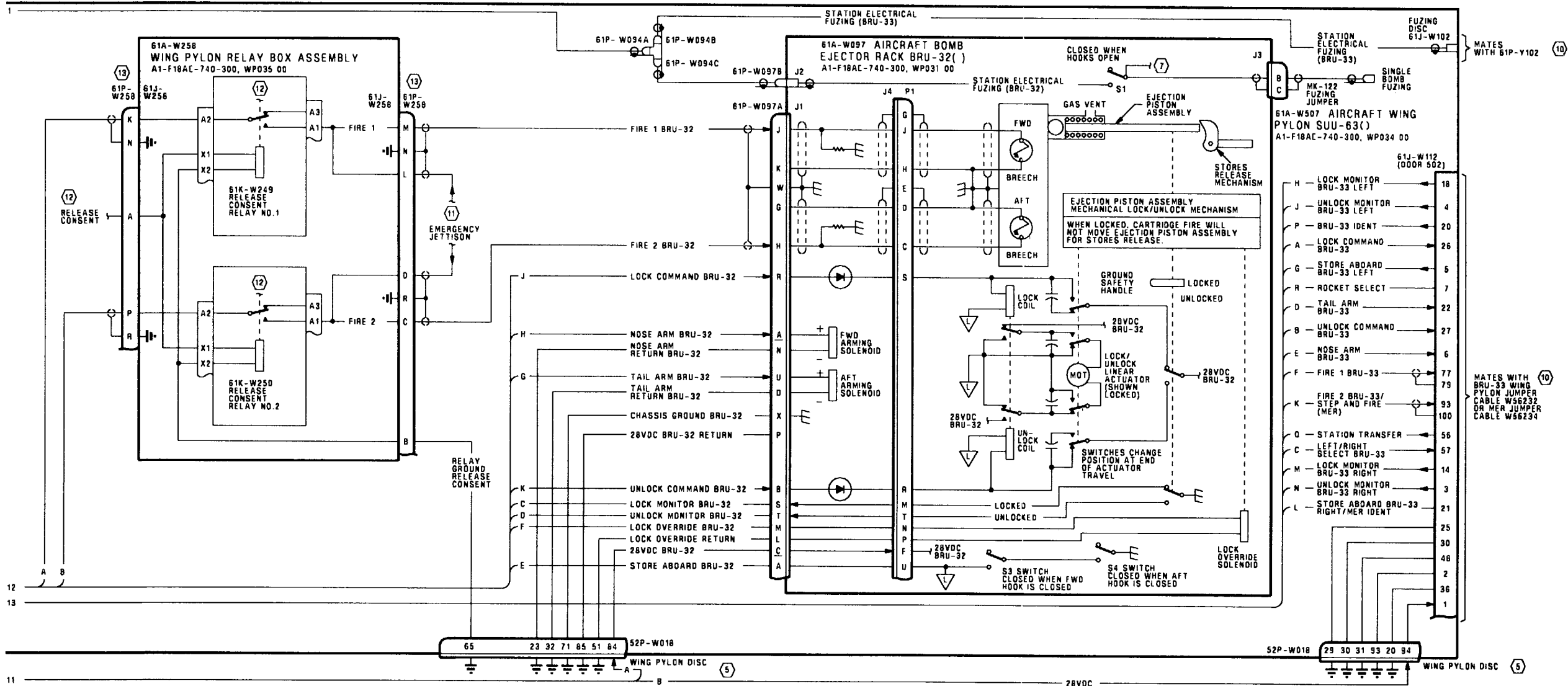


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 Bomb/Mine Schematic (Sheet 3)

LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	STATION 8 52J-V068 (DOOR 61R).
2.	CONTINUITY TEST:	
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A-()-WDM-000.	6 APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCIETY FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	
	C. WHEN TESTING CONTINUITY, TEST FOR:	7 ELECTRICAL FUZING SCHEMATIC, WP071 00.
	(1) SHORTS TO GROUND.	
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	8 LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	
	(4) SHIELD CONTINUITY.	9 ARMAMENT MUX BUS DATA, WP010 00.
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	10 REFER TO APPLICABLE BOMB RACK SCHEMATIC, WP062 00.
4	BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.	11 EMERGENCY JETTISON SCHEMATIC, WP018 00.
5	PYLON DISCONNECT AND DOOR LOCATIONS: STATION 2 52J-U062 (DOOR 61L). STATION 3 52J-U063 (DOOR 60L). STATION 7 52J-V067 (DOOR 60R).	12 RELEASE CONSENT INTERCONNECT SCHEMATIC, WP004 00.
		13 CONNECTOR AND PINS ARE DUPLICATED TO SIMPLIFY SIGNAL FLOW.

Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 Bomb/Mine Schematic (Sheet 4)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 5 BOMB/MINE

STORES MANAGEMENT SYSTEM

Reference Material

None

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F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows the system functions for release of bombs/mines from the Aircraft Bomb Ejector Rack BRU-32(), Aircraft Bomb Ejector Rack BRU(), and Multiple

Ejector Rack (MER) when loaded on weapon station 5.

3. The location of the components on this schematic can be seen in WP008 00.



Figure 1. Weapon Station 5 Bomb/Mine Schematic (Sheet 1)

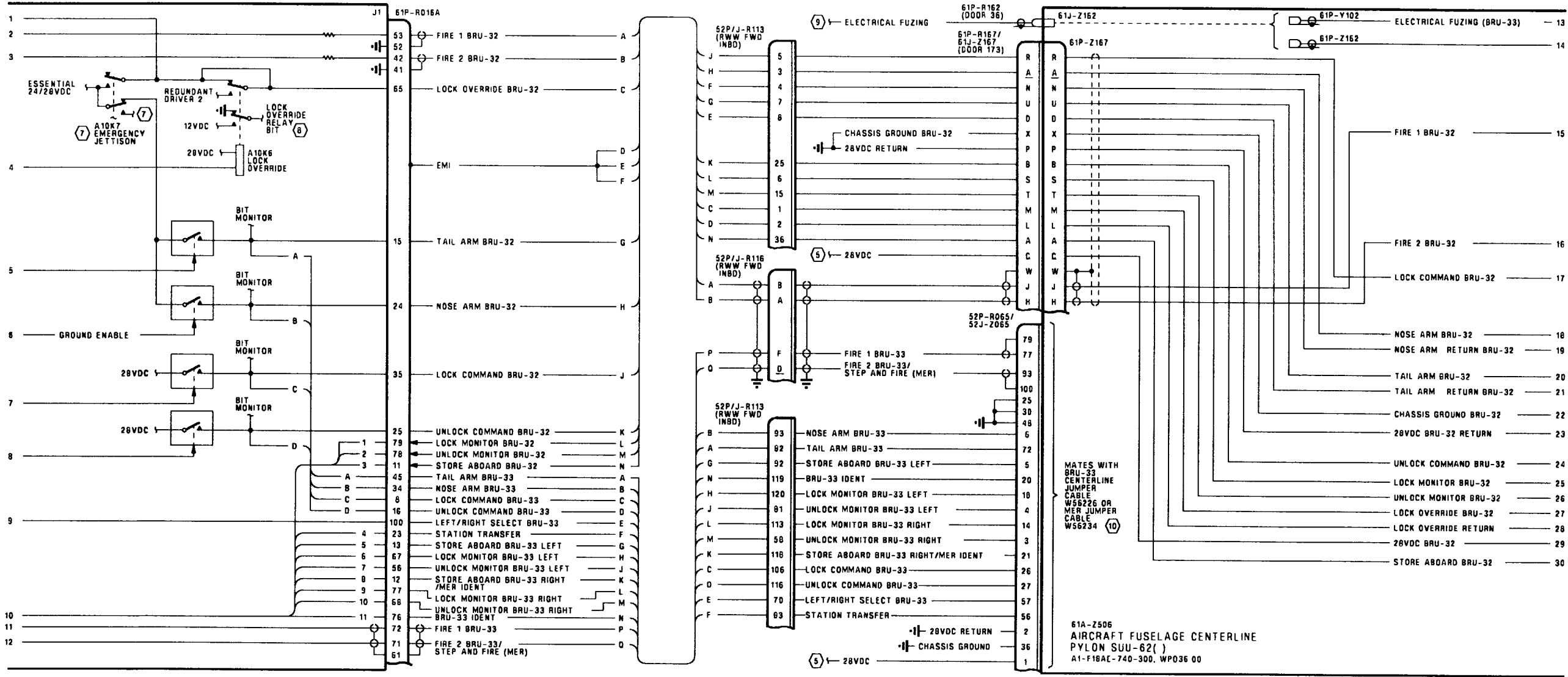


Figure 1.

Figure 1. Weapon Station 5 Bomb/Mine Schematic (Sheet 2)



Figure 1.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
- ④ APPLICABLE AVIONIC INTERFACE SCHEMATIC:
 BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.
 MINE AVIONIC INTERFACE SCHEMATIC, WP064 00.
- ⑤ WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00.
- ⑥ ARMAMENT MUX BUS DATA, WP010 00.
- ⑦ EMERGENCY JETTISON SCHEMATIC, WP018 00.
- ⑧ LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
- ⑨ ELECTRICAL FUZING SCHEMATIC, WP071 00.
- ⑩ BOMB RACKS SCHEMATIC, WP062 00.
- 11 162394 THRU 163175 BEFORE F/A-18 AFC 253 OR F/A-18 AFC 252.
- 12 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 252.

Figure 1. Weapon Station 5 Bomb/Mine Schematic (Sheet 4)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - BOMB RACKS

STORES MANAGEMENT SYSTEM

Reference Material

None

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Multiple Ejector Rack (MER) Schematic, Figure 2	4

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows the bomb racks that can be loaded on the Aircraft Bomb Ejector Rack BRU-32(). The schematics

support the weapon station bomb/mine schematics and launcher/rack lock/unlock schematic.

3. Component locations for this WP can be seen in WP008 00.

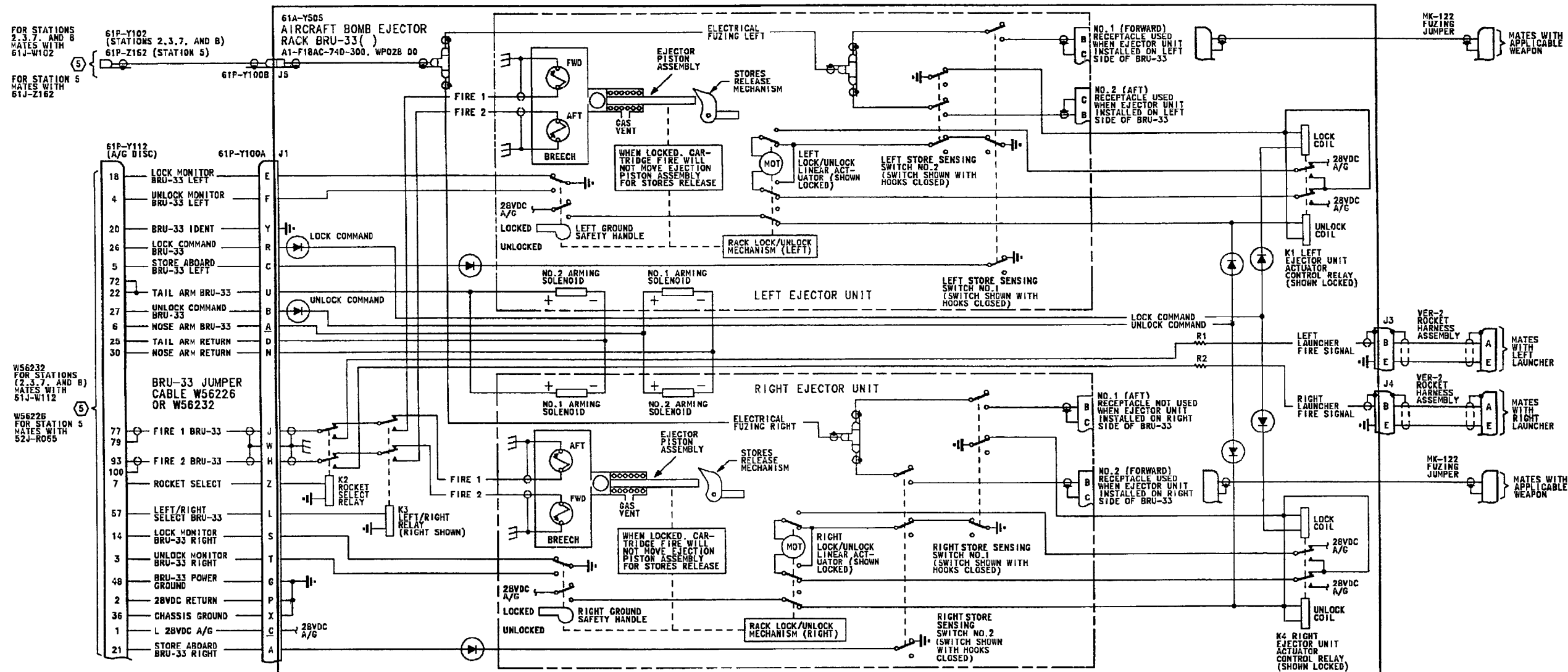


Figure 1.

Figure 1. Aircraft Bomb Ejector Rack BRU-33 () Part Numbers J014000-525, J014000-529, J014000-541, and 3036AS100 (Sheet 1)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RXI SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
4. ABBREVIATIONS: SEE WP002 01.
5. APPLICABLE WEAPON STATION BOMB/MINE SCHEMATIC.
 - WEAPON STATION 2, 3, 7, 8 BOMB/MINE SCHEMATIC, WP060 00.
 - WEAPON STATION 5 BOMB/MINE SCHEMATIC, WP061 00.



Figure 2.

MULTIPLE EJECTOR RACK (MER)
A1-F18AC-740-300, WP037 01

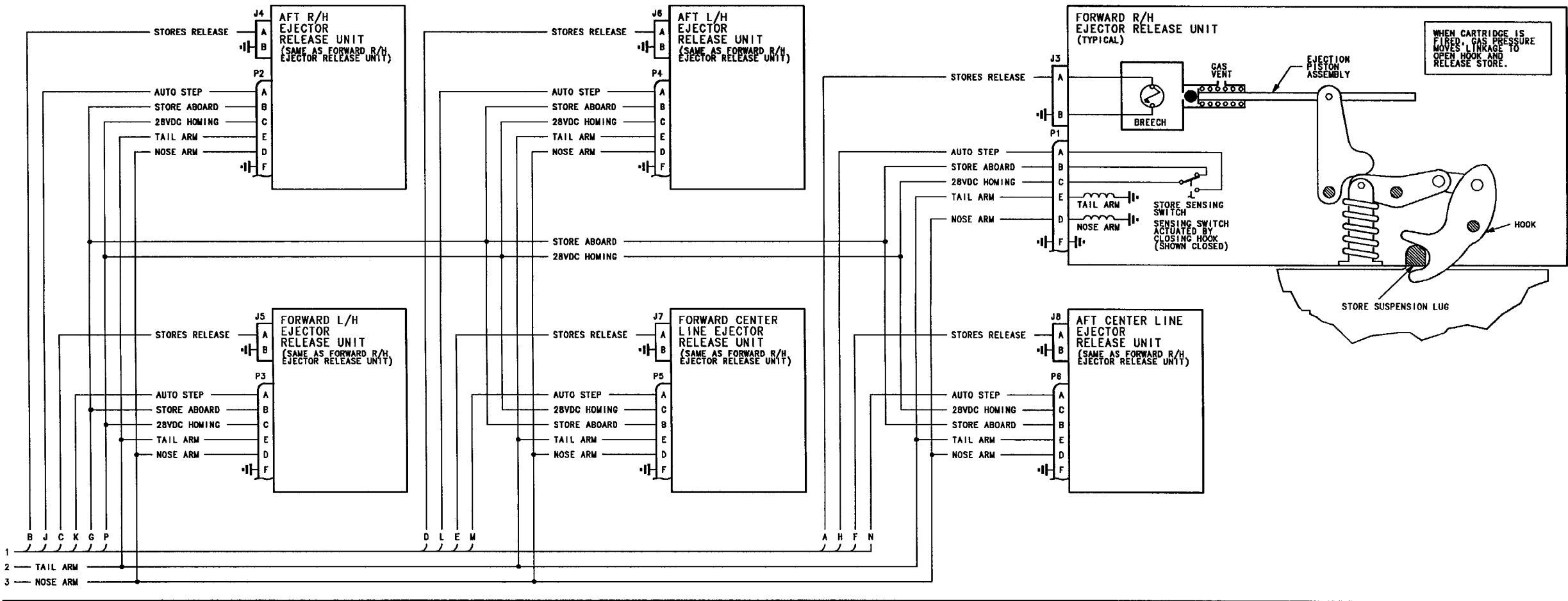


Figure 2.

Figure 2. Multiple Ejector Rack (MER) Schematic (Sheet 2)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RXI SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.



APPLICABLE WEAPON STATION BOMB/MINE SCHEMATIC.

WEAPON STATION 2, 3, 7, 8 BOMB/MINE SCHEMATIC, WP060 00.

WEAPON STATION 5 BOMB/MINE SCHEMATIC, WP061 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - BOMB AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. INTRODUCTION.

(1) Weapon Station 2, 3, 7, 8 (060 00).

2. The work package shows the stores management system interface functions with aircraft systems relating to conventional bombs. This schematic supplements the schematics listed below:

(2) Weapon Station 5 (061 00).

b. Electrical Fuzing Schematic (074 00).

c. Mechanical Fuzing Schematic (075 00).

a. Bomb/Mine Schematics.

3. Component locations are shown in WP008 00.



Figure 1.

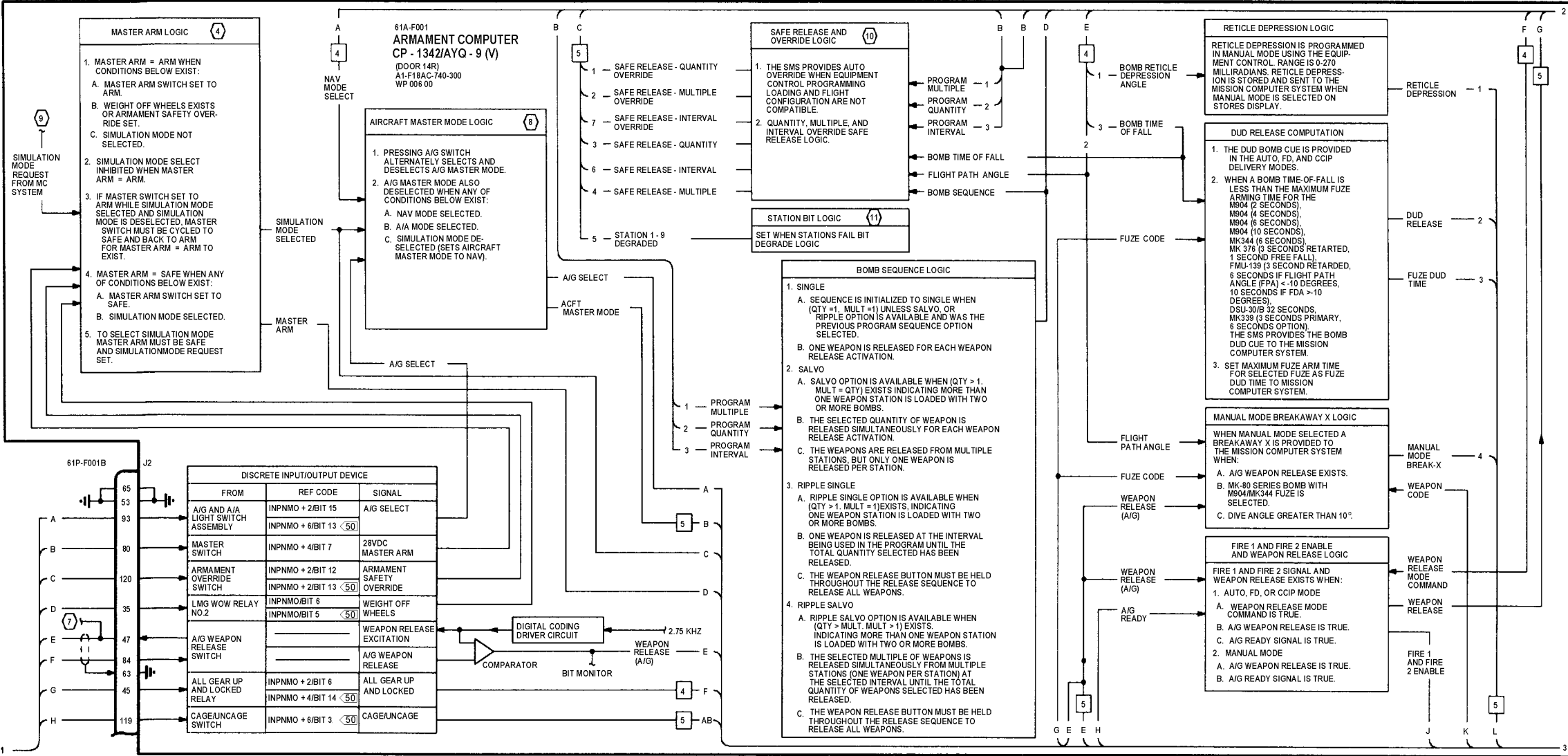


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 2)

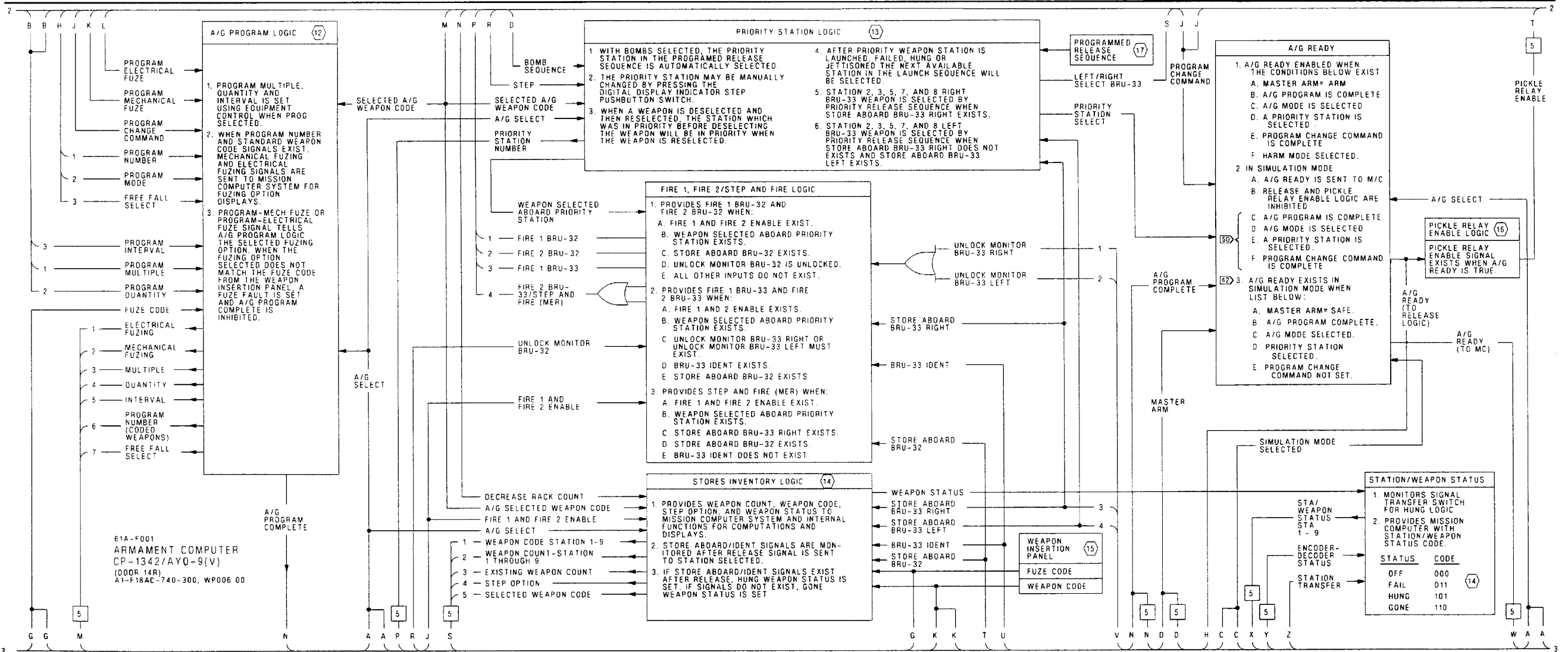


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 3)

Figure 1.

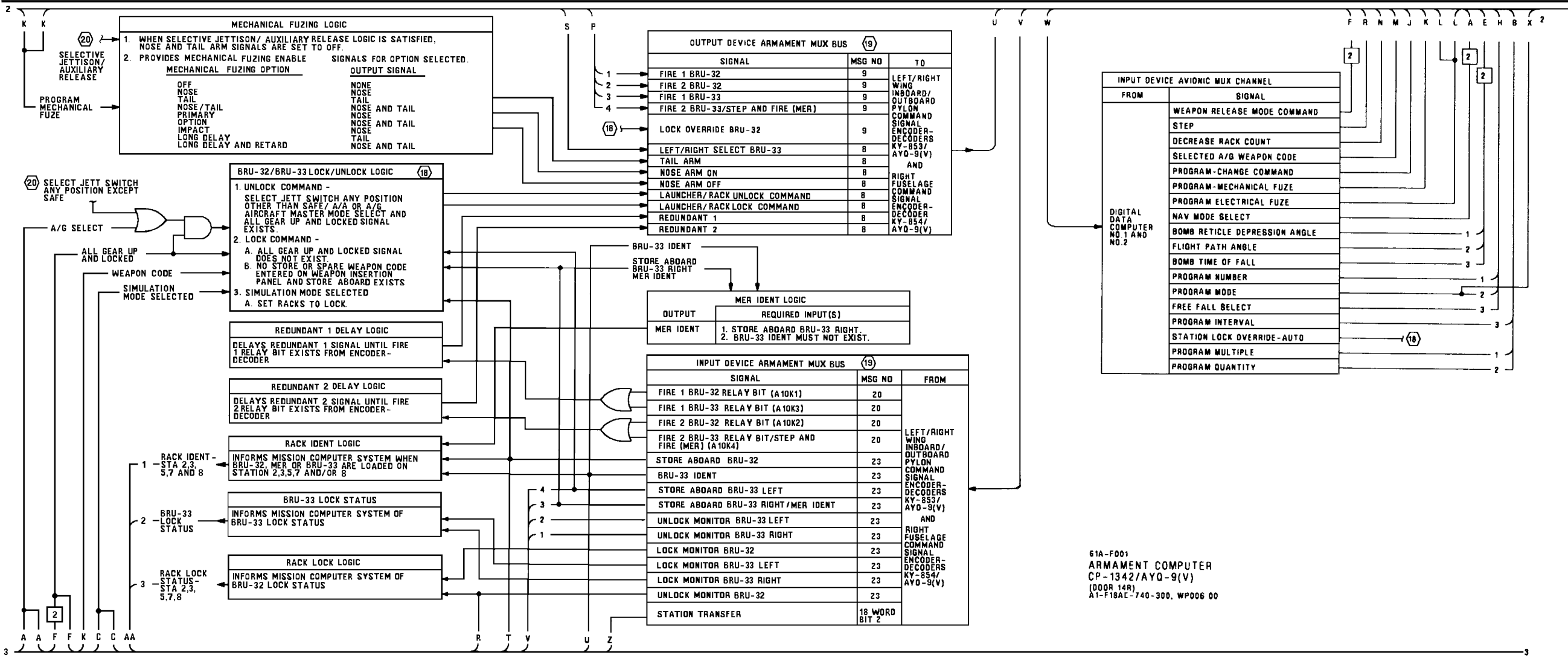


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 4)

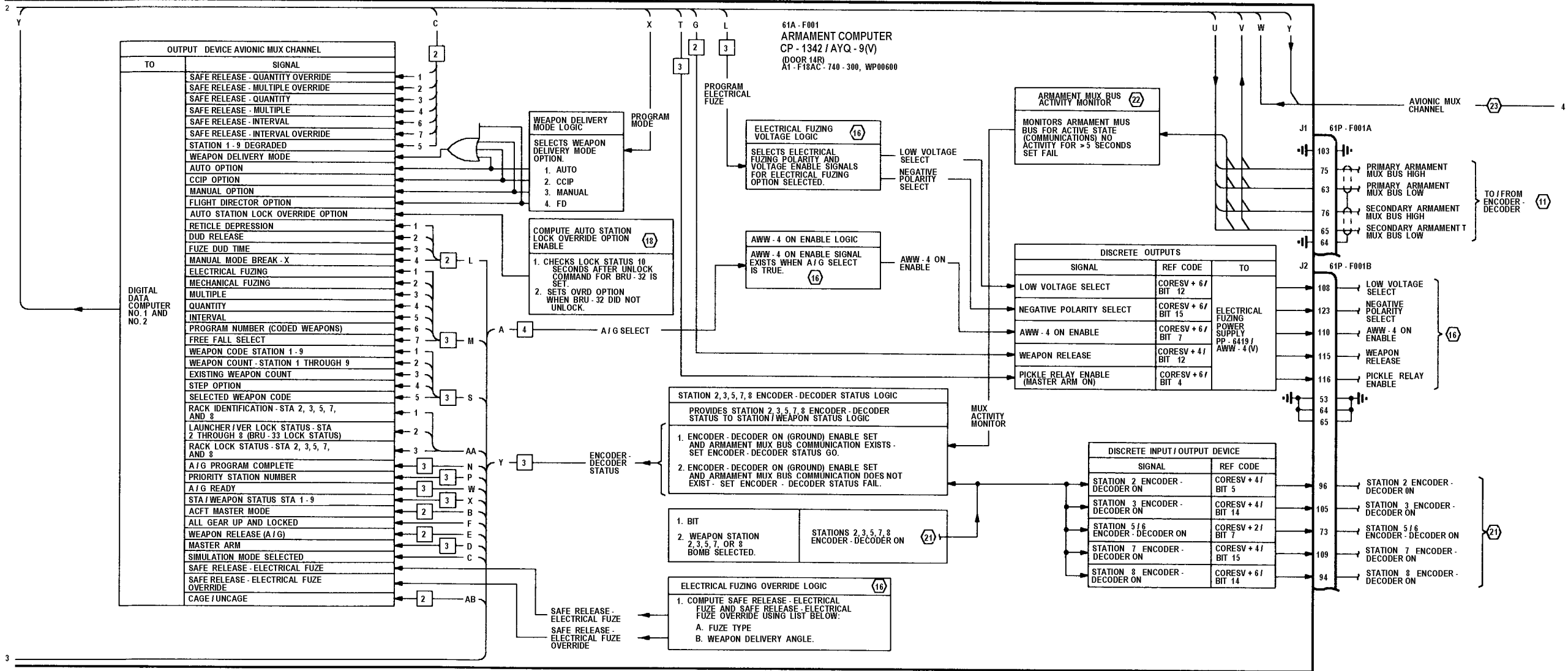


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 5)

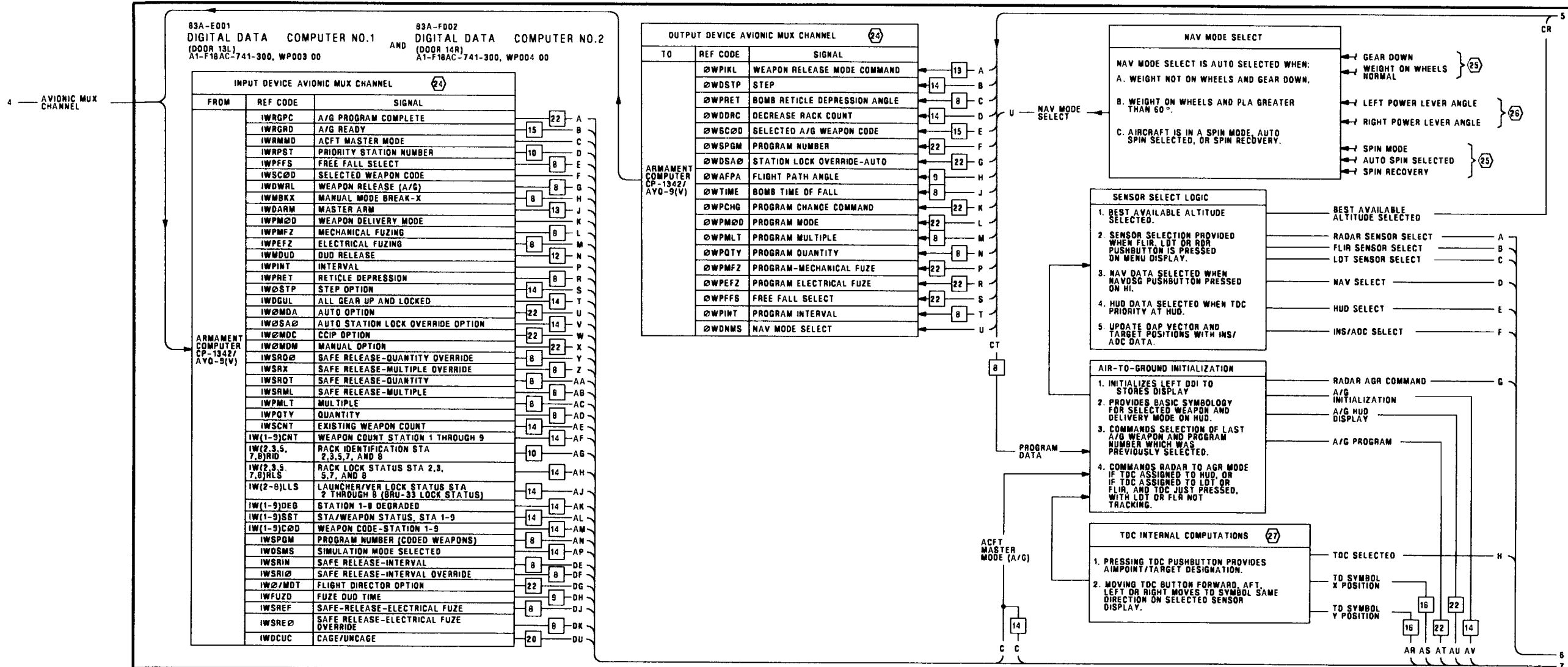


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 6)

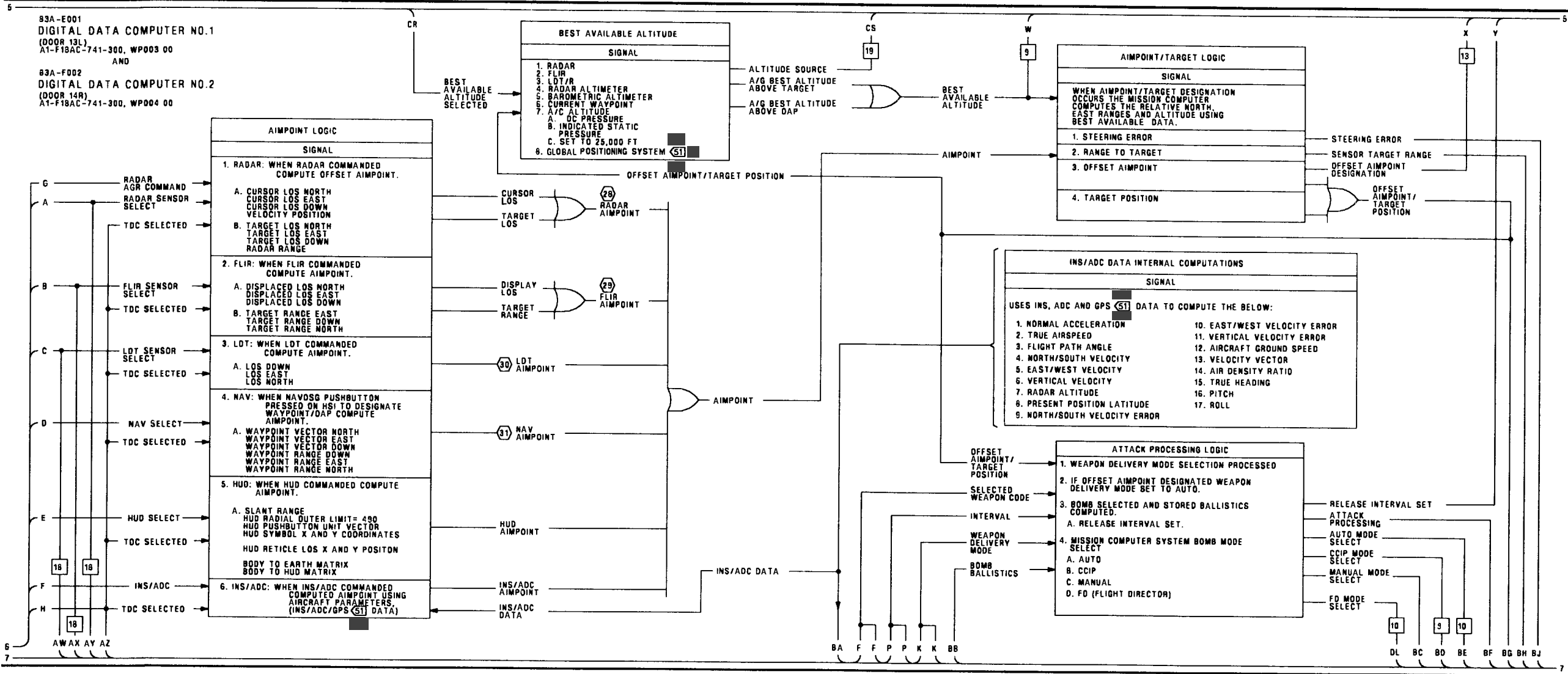


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 7)

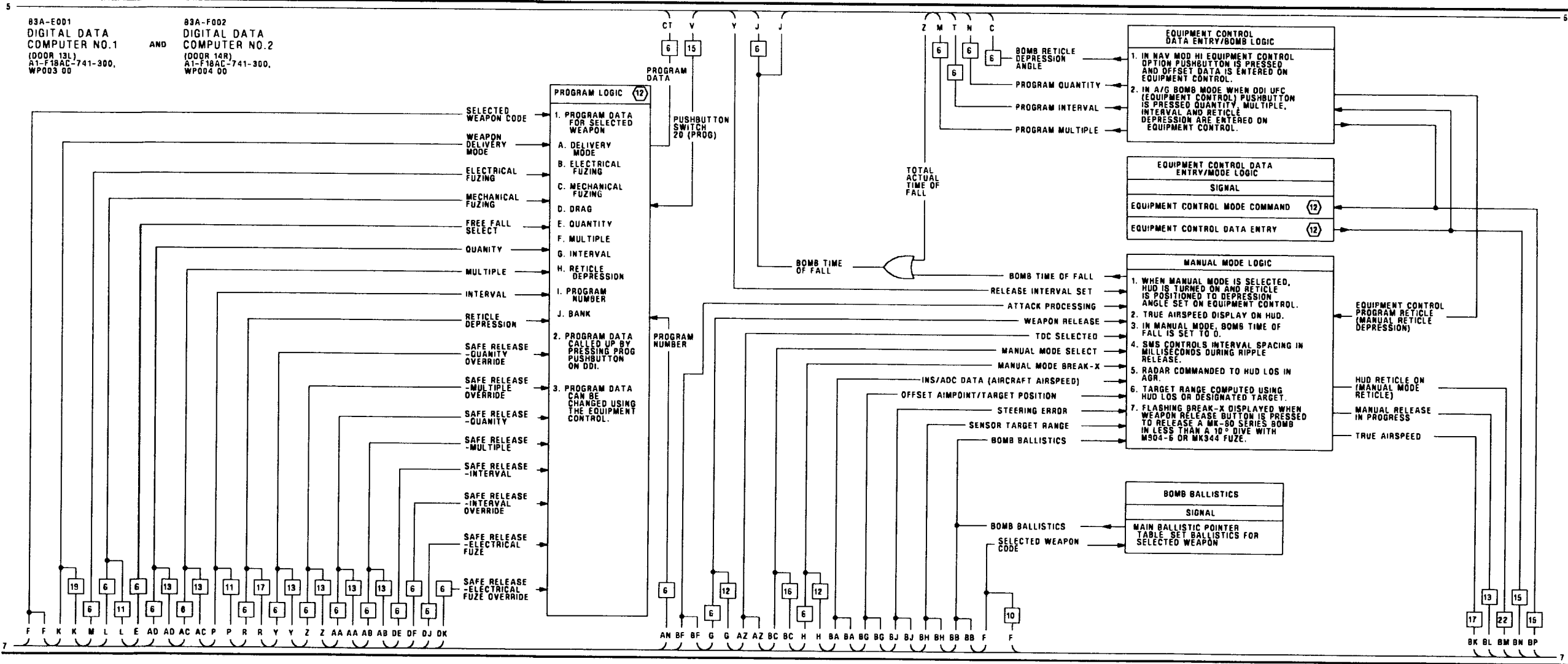


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 8)



06300109
Figure 1.

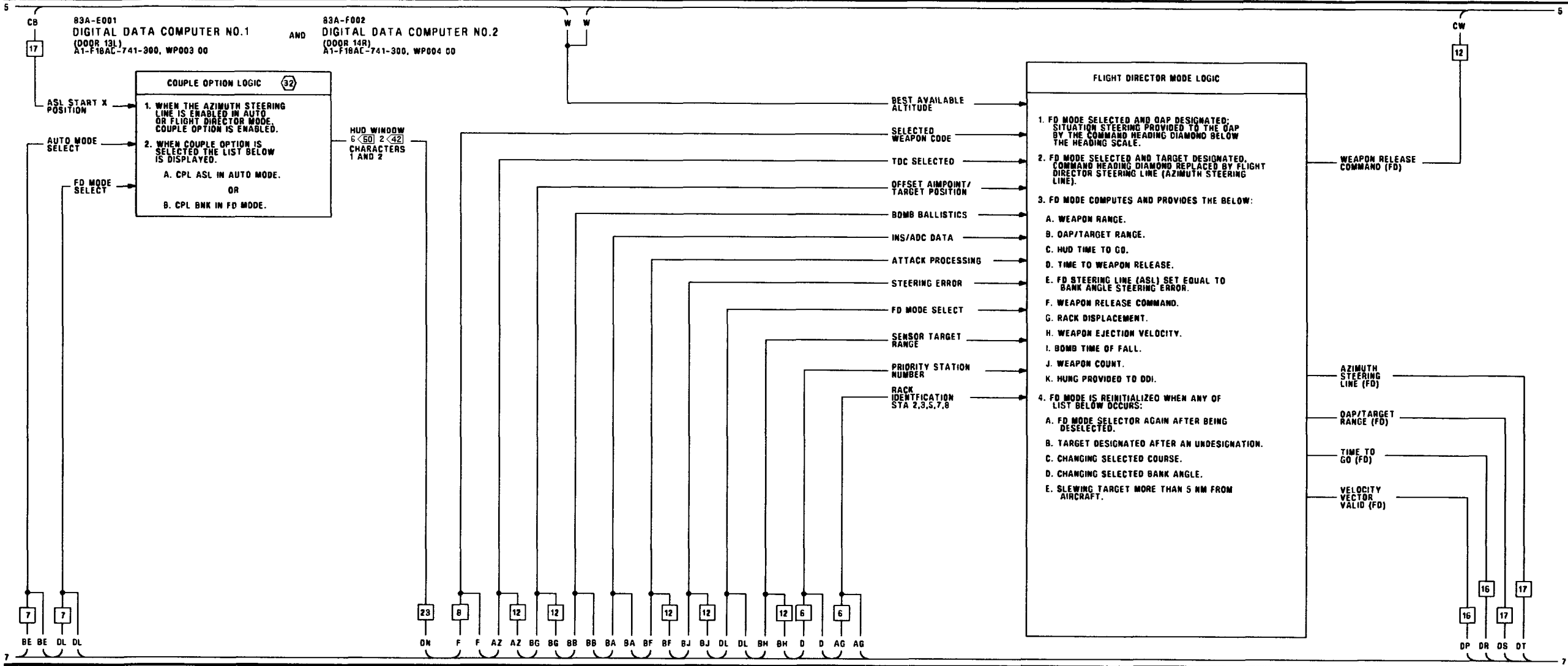


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 10)

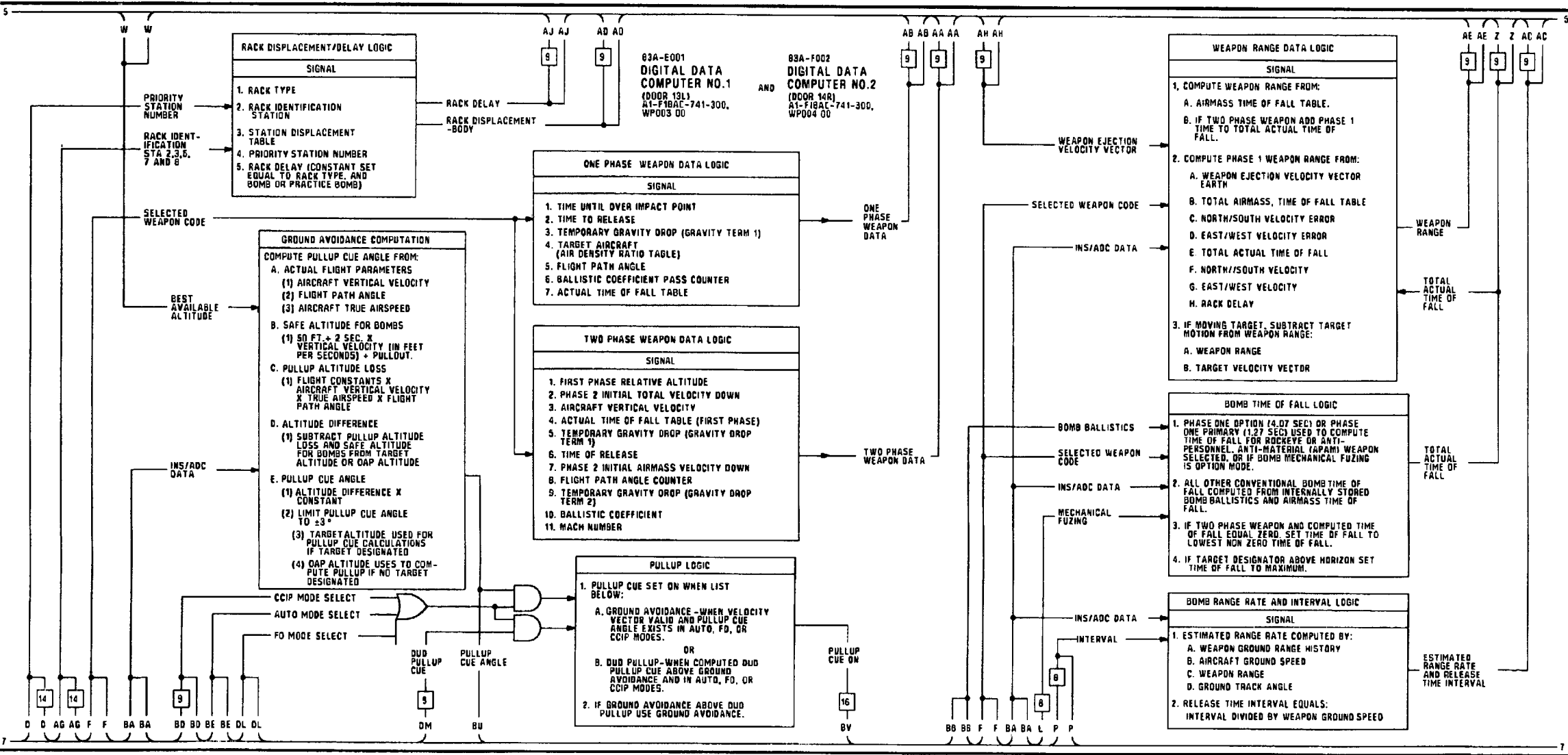


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 11)

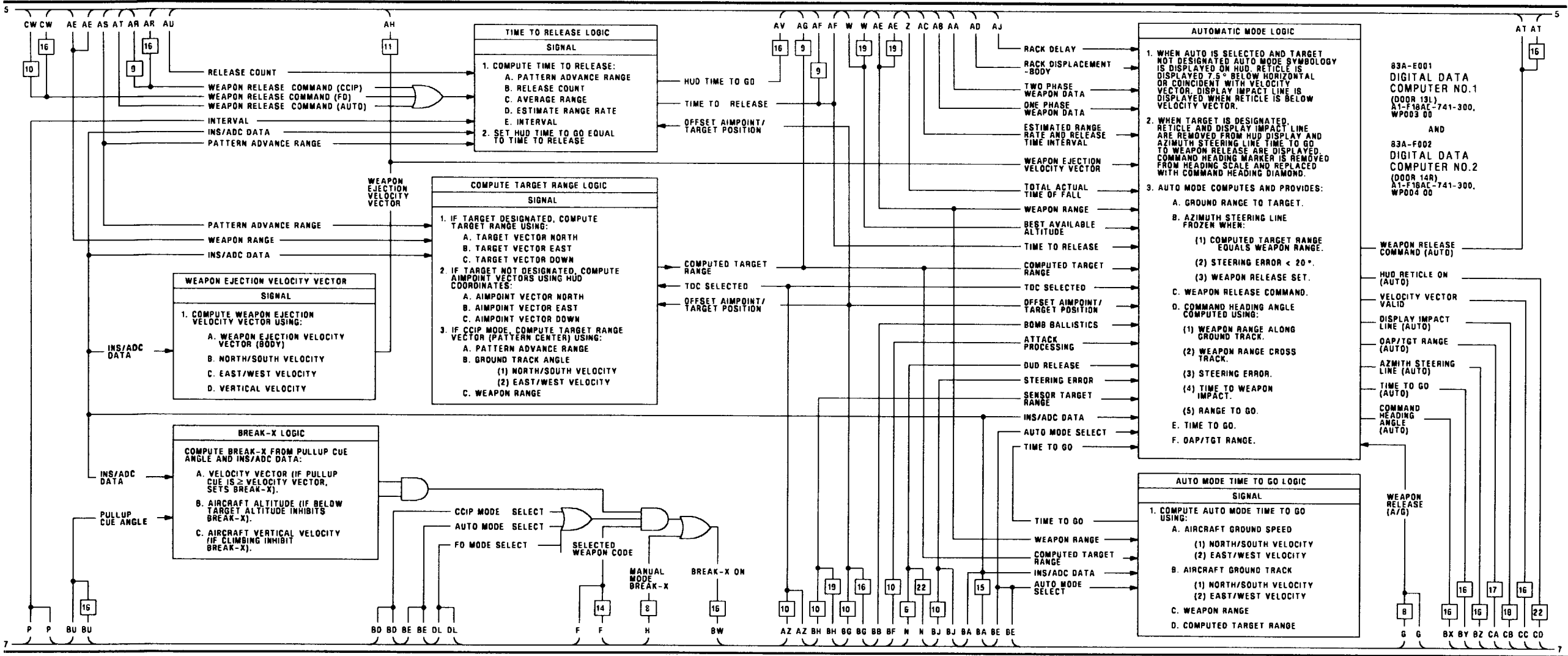
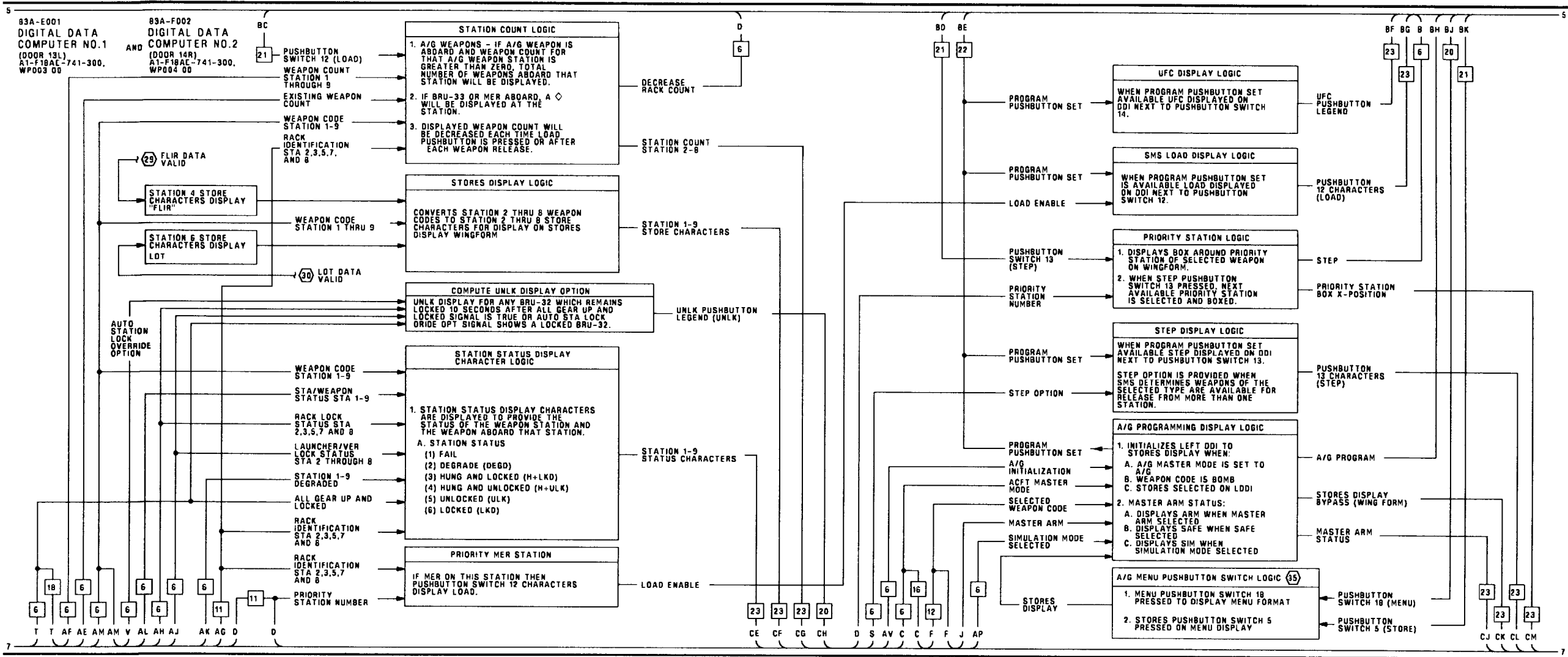


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 12)



Figure 1.



06300114
Figure 1.



Figure 1.

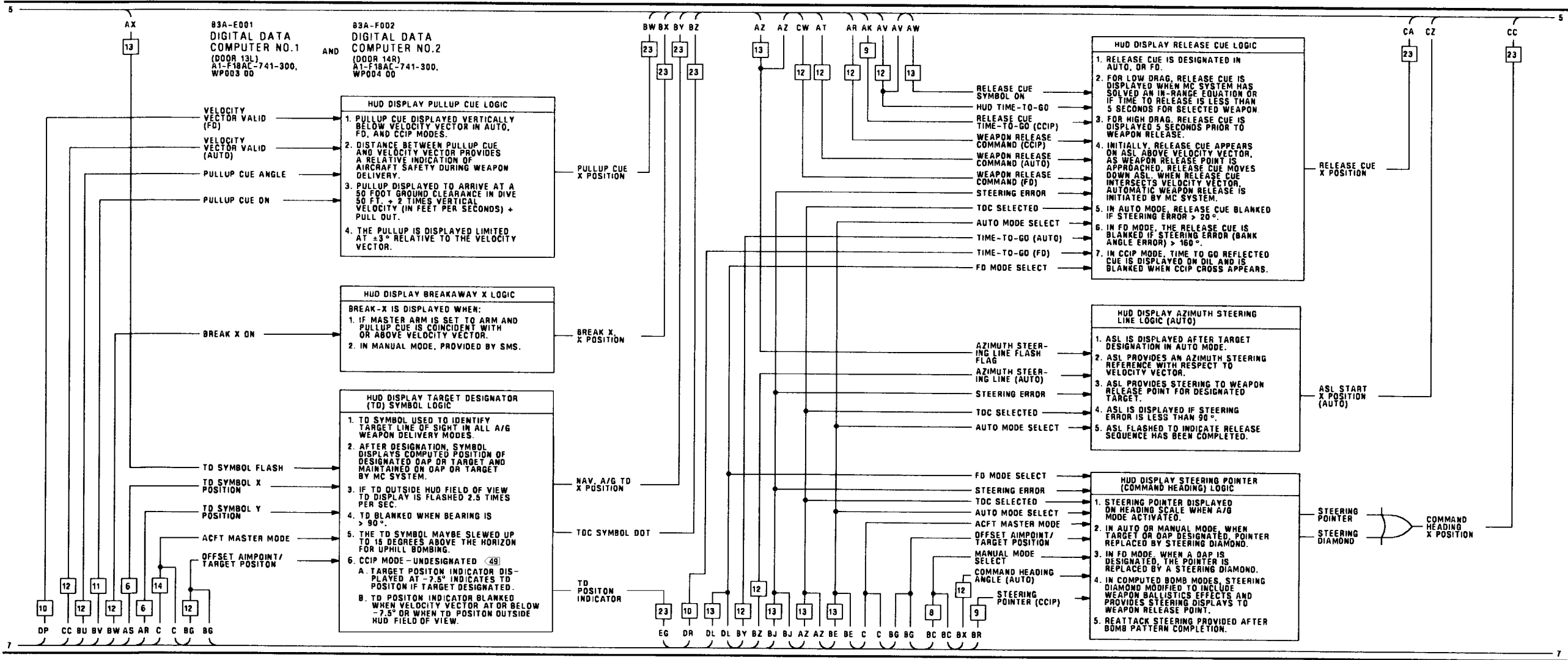


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 16)

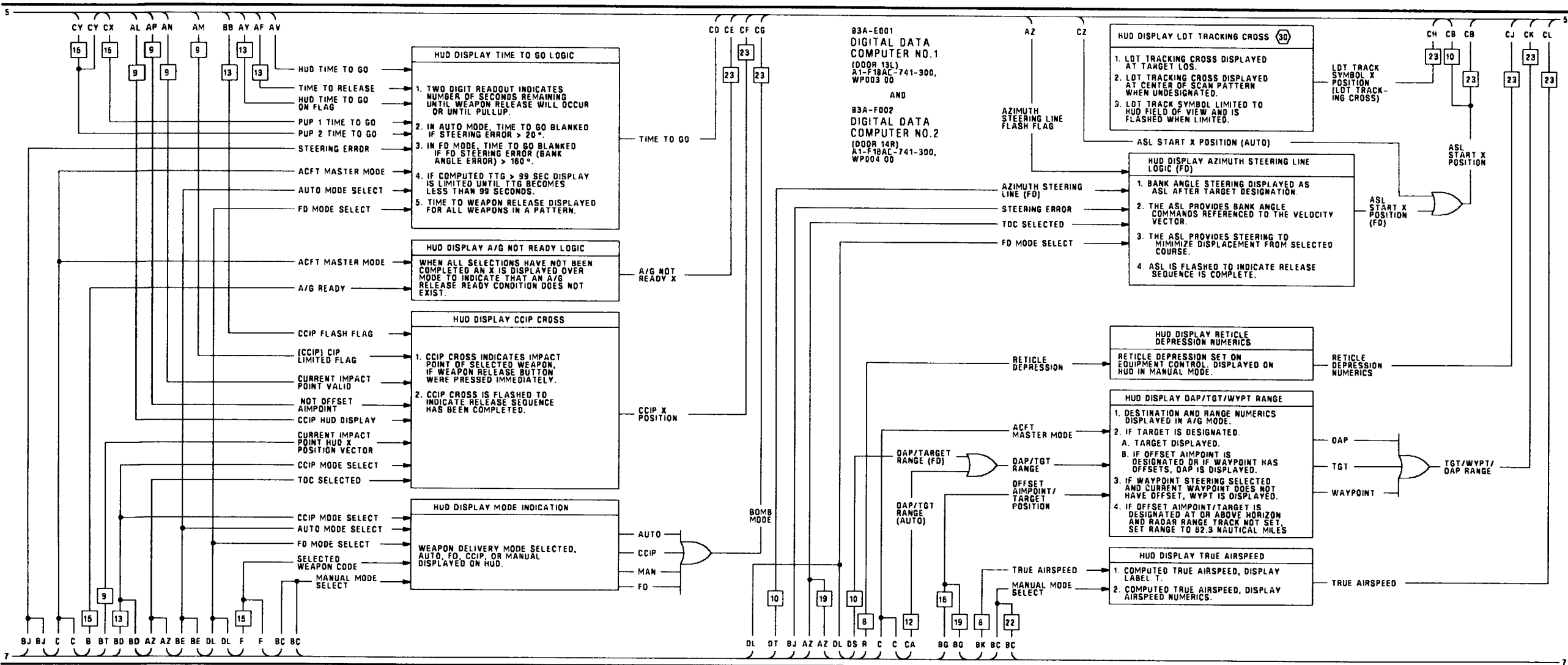


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 17)

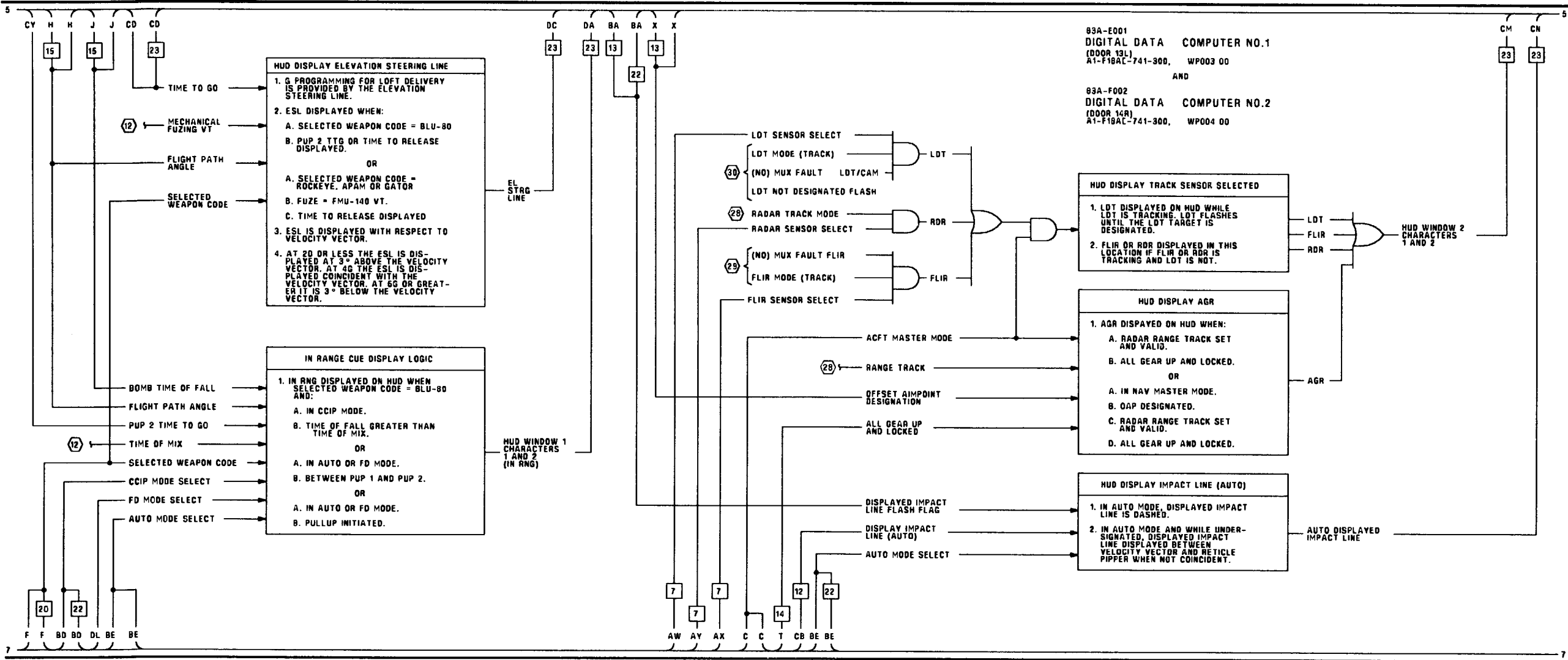


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 18)

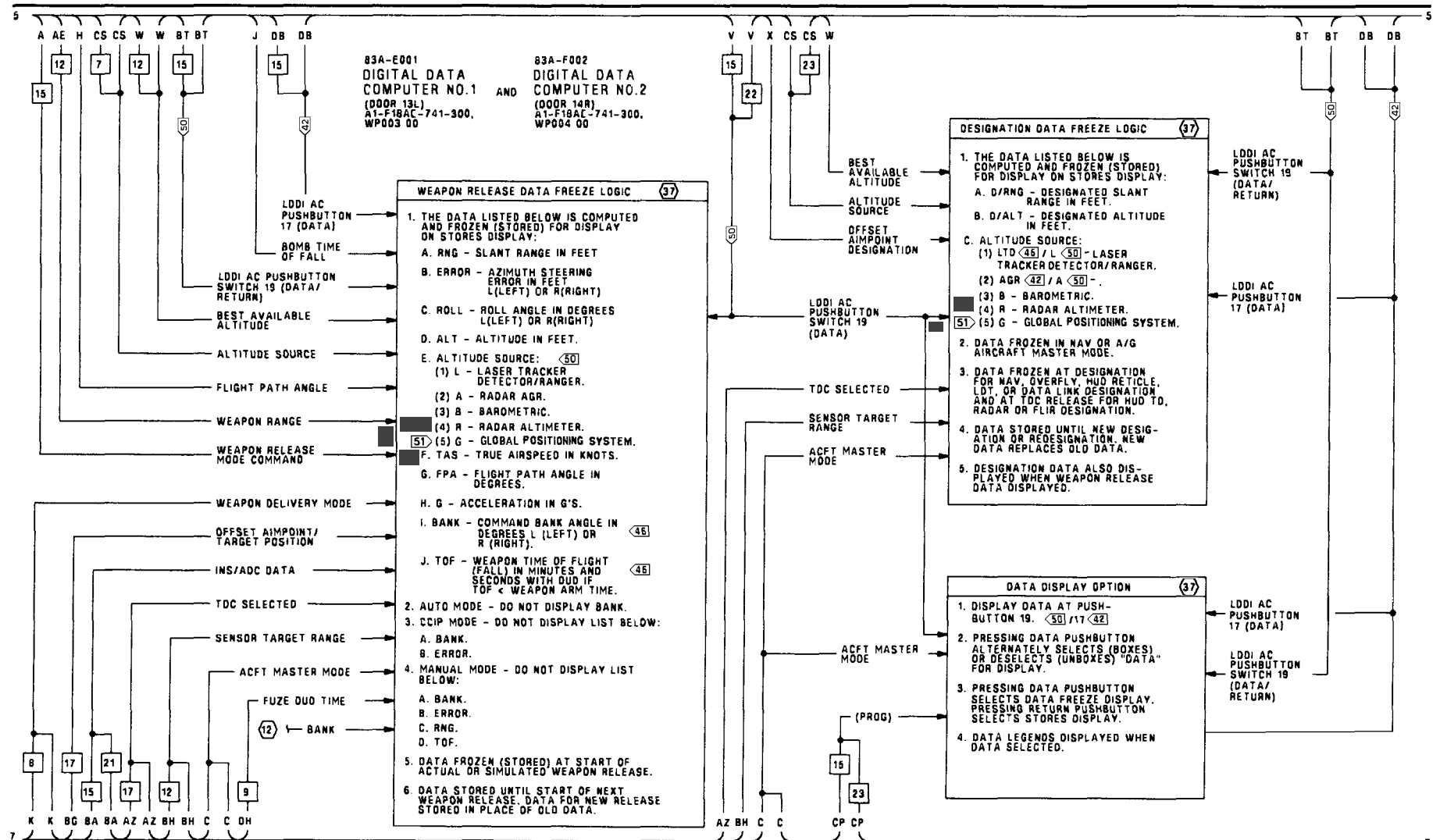
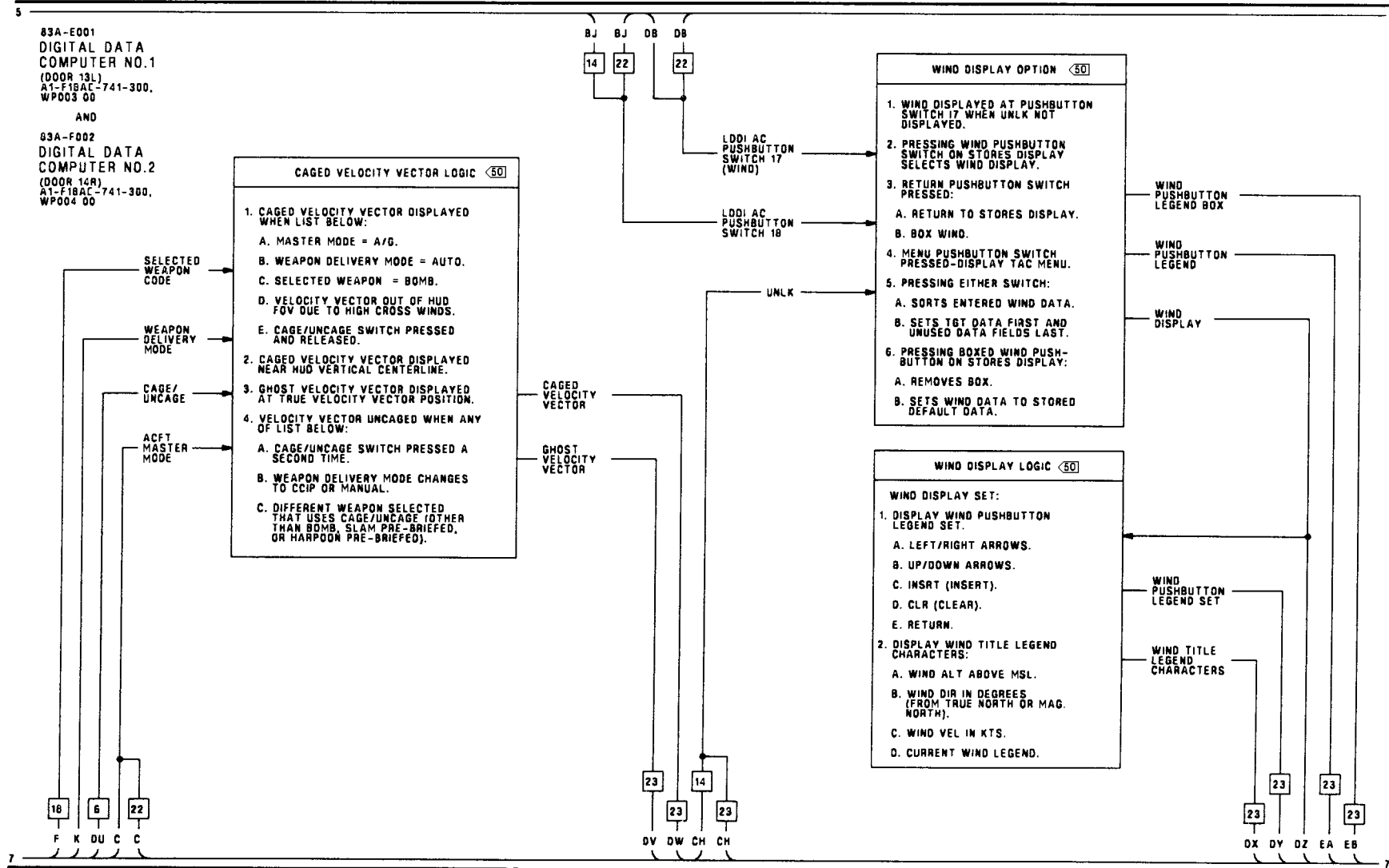


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 19)

Figure 1.



06300121

Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 21)

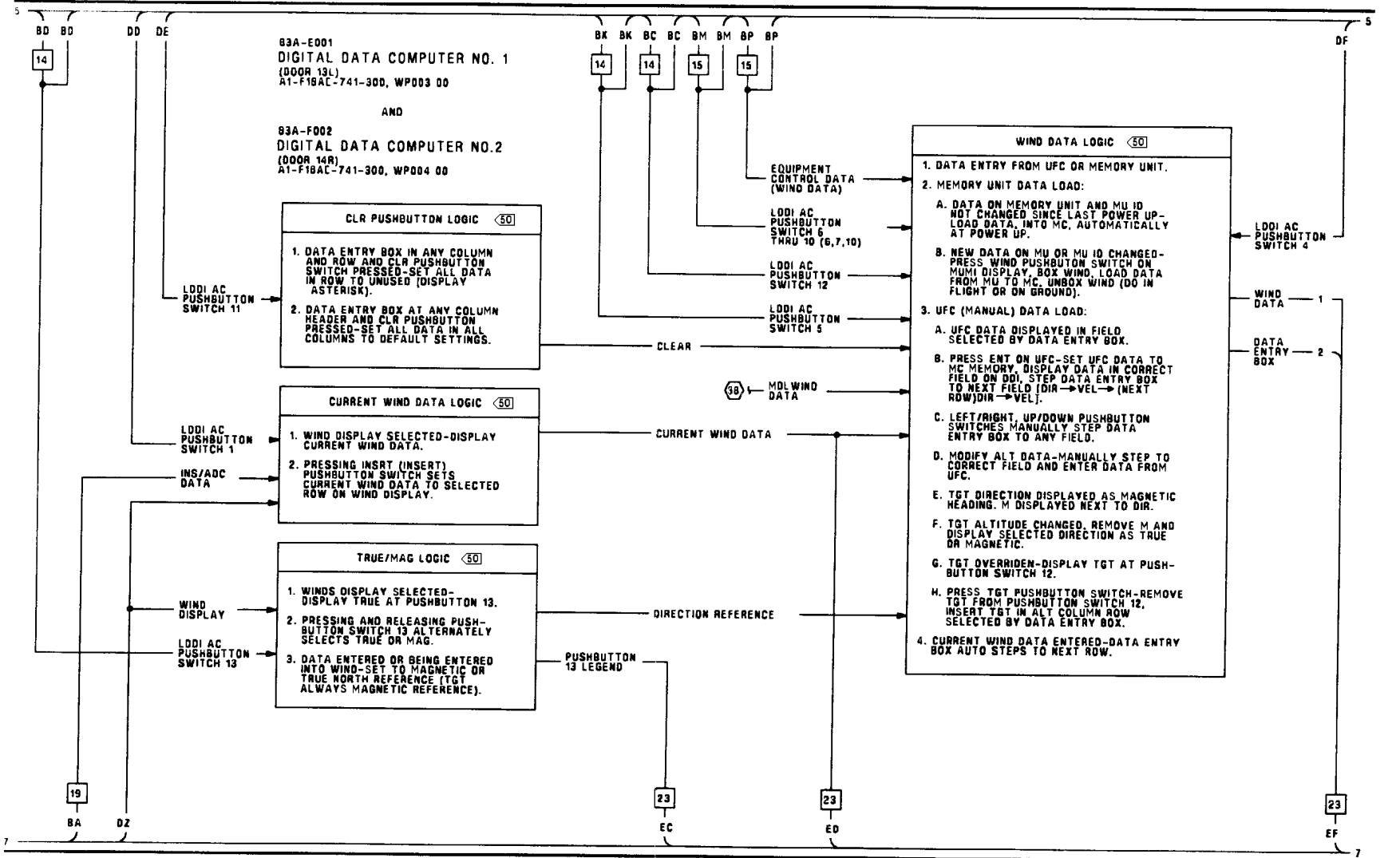
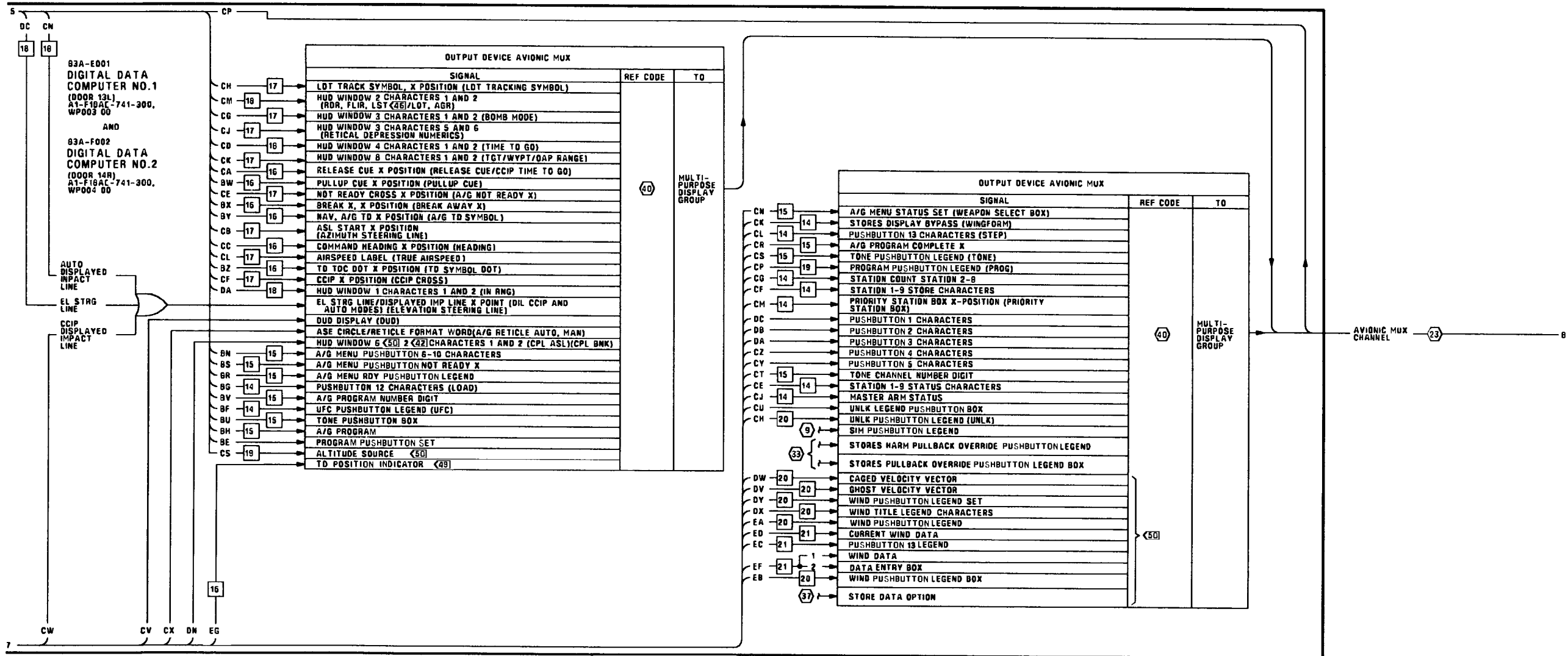


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 21)

Figure 1.





06300123
Figure 1.

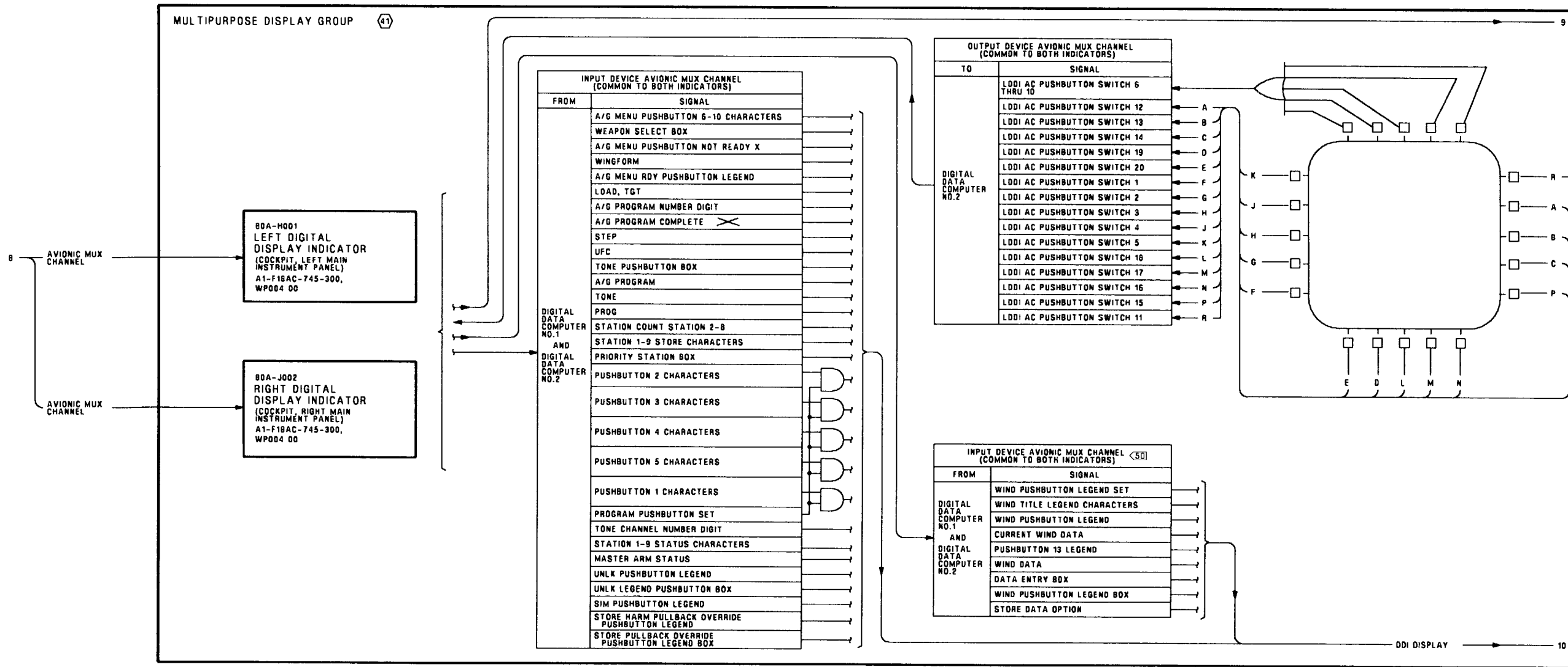


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 24)



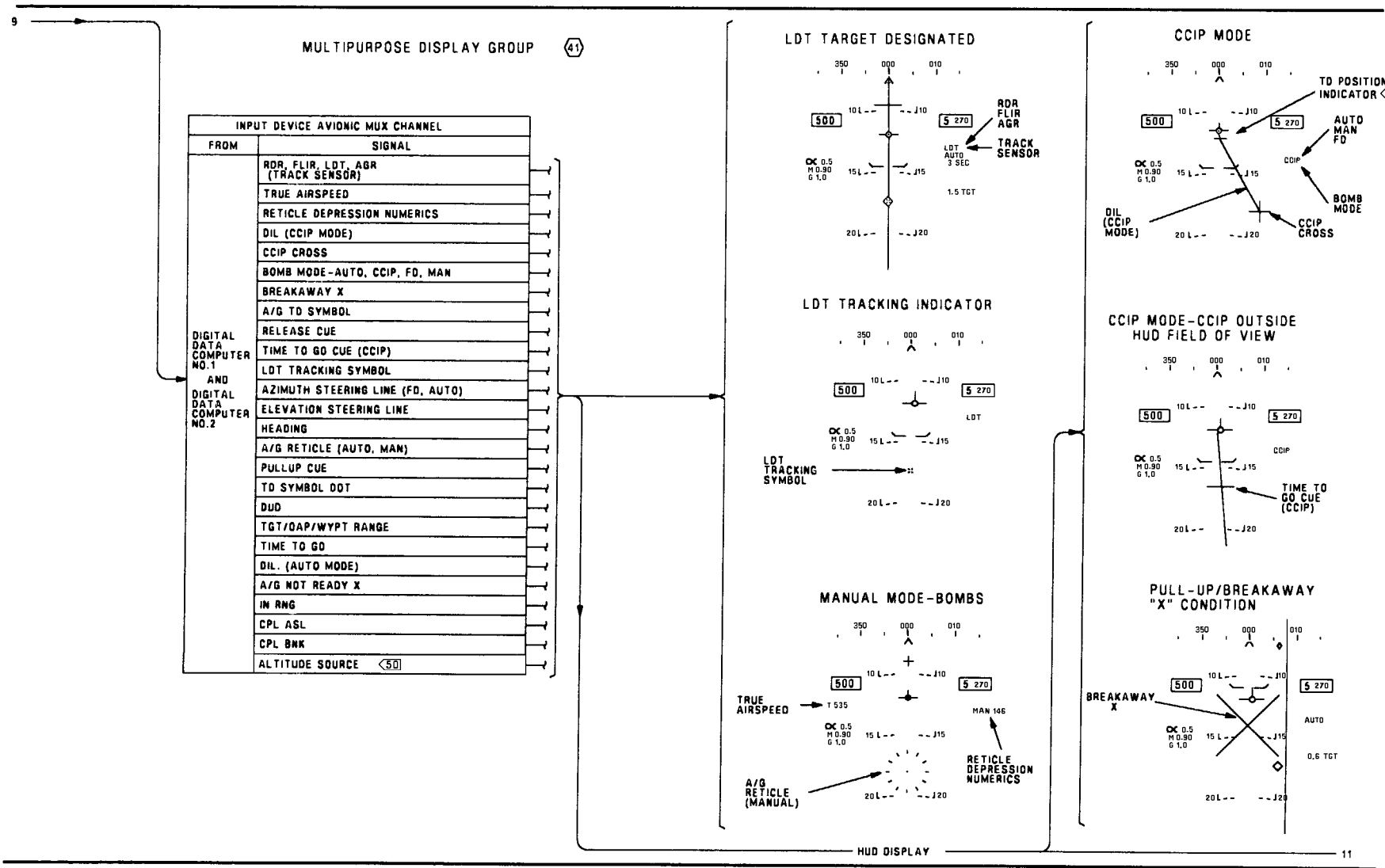


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 26)

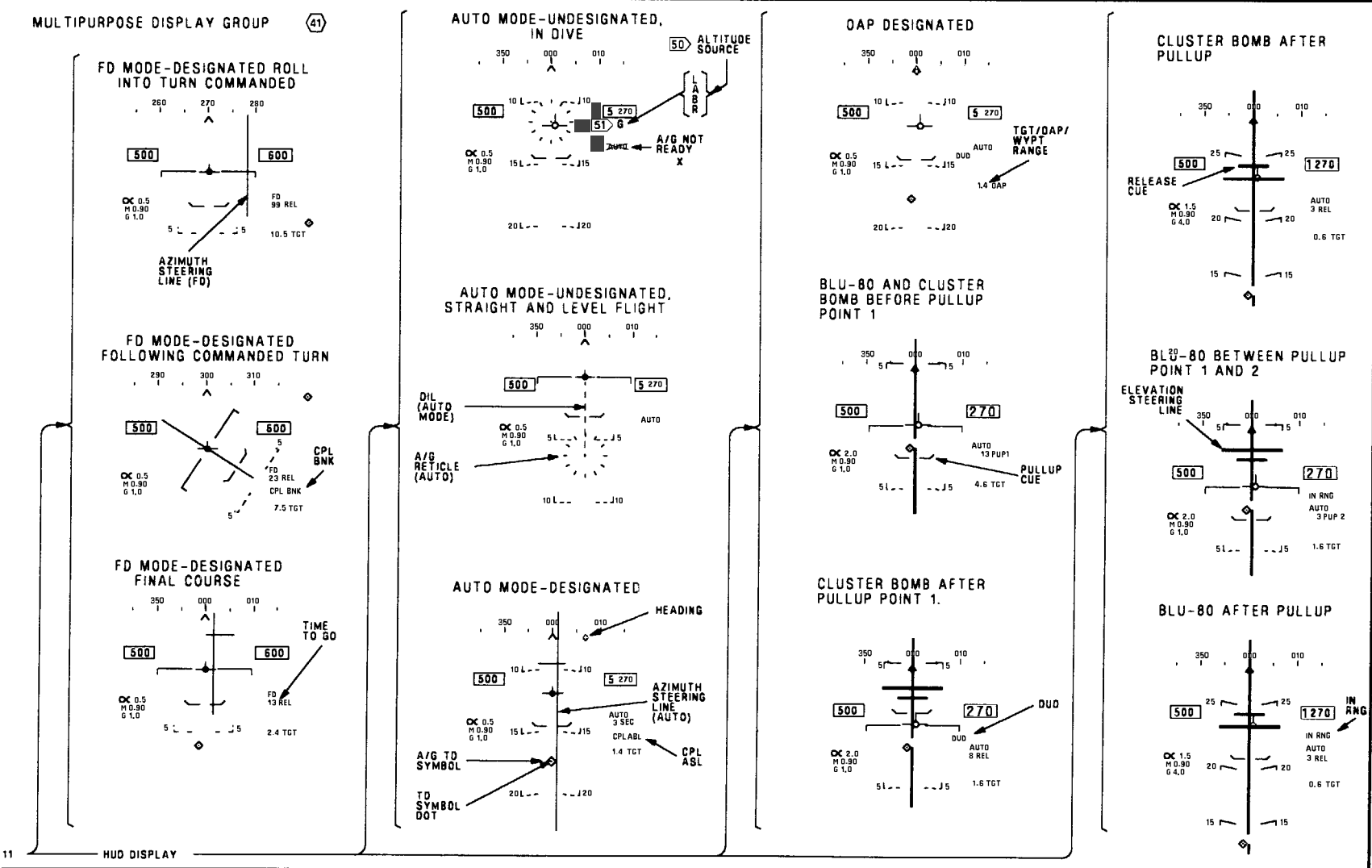


Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 27)

LEGEND			
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:		
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	18	LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	19	ARMAMENT MUX BUS DATA, WP010 00.
	C. WHEN TESTING CONTINUITY, TEST FOR:	20	SELECTIVE JETTISON/AUXILLARY RELEASE SCHEMATIC, WP019 00.
	(1) SHORTS TO GROUND.	21	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC:
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.		WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.		WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.
	(4) SHIELD CONTINUITY.		WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00.
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.		WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.
			WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
4	MASTER ARM SCHEMATIC, WP017 00.	22	BUILT-IN-TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
5	COCKPIT WARNING/ADVISORY LIGHTING SYSTEM SCHEMATIC, A1-F18AC-440-500, WP009 00.	23	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
6	LANDING GEAR CONTROLLED RELAY SCHEMATIC, A1-F18AC-130-500, WP009 00.	24	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
7	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	25	CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.
8	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	26	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18A-570-500, WP029 00.
9	SIMULATION MODE SELECT SCHEMATIC, WP022 00.	27	SENSOR CONTROL SWITCH AND THROTTLE DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.
10	QUALITY, MULTIPLE, AND INTERVAL OVERRIDE TABLE, WP009 00.	28	AIR TO GROUND TRACK PROCESSING SCHEMATIC, A1-F18AC-742-500, WP039 00.
11	APPLICABLE WEAPON STATION BOMB/MINE SCHEMATIC:	29	MODE SELECTION AND CONTROL FUNCTIONAL SCHEMATIC, A1-F18AC-744-500, WP008 00.
	WEAPON STATION 2, 3, 7, AND 8 BOMB/MINE SCHEMATIC, WP060 00.	30	LTD ACQUISITION AND TRACK SCHEMATIC, A1-F18AC-743-500, WP010 00.
	WEAPON STATION 5 BOMB/MINE SCHEMATIC, WP061 00.	31	NAVIGATION VELOCITY AND POSITION KEEPING FUNCTIONAL SCHEMATIC, A1-F18AC-744-500, WP018 00.
12	BOMB/MINE DELIVERY PROGRAM SELECT SCHEMATIC, WP065 00.	32	AUTO PILOT FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP030 00.
13	WEAPON SELECT SCHEMATIC, WP016 00.	33	AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP056 00.
14	STORES INVENTORY SCHEMATIC, WP015 00.		
15	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, TABLE 1, WP009 00.		
16	ELECTRICAL FUZING SCHEMATIC, WP071 00.		
17	PRIORTY WEAPON STATION RELEASE SEQUENCE, WP009 00.		
		34	SCAM CONTROL SCHEMATIC, A1-F18AC-743-500, WP013 00.
		35	MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP010 00.
		36	AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.
		37	DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
		38	MISSION DATA LOADER FUNCTIONAL SCHEMATIC, A1-F18AE-580-500, WP009 00.
		39	IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION, TROUBLESHOOT USING:
			A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		40	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST:
			A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		41	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-200, WP004 00.
		42	162394 THRU 163175 BEFORE F/A-18 AFC 253 OR AFC 292.
		43	F/A-18B.
		44	161353 THRU 161519 BEFORE F/A-18 AFC 27.
		45	161520 AND UP; ALSO 161353 THRU 161519 AFTER F/A-18 AFC 27.
		46	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 87X AND UP (A1-F18AC-SCM-000).
		47	161353 THRU 161987 BEFORE F/A-18 AFC 48.
		48	162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 48.
		49	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 92A AND DIGITAL DATA COMPUTER CONFIG/IDENT 92A AND UP (A1-F18AC-SCM-000).
		50	162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.
		51	AFTER F/A-18 AFC 231.

Figure 1.

Figure 1. Bomb Avionic Interface Schematic (Sheet 28)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - MINE AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. INTRODUCTION.

(1) Weapon Station 2, 3, 7, 8 (060 00).

2. The work package shows the aircraft system functions relating to mines. This schematic supplements the schematics listed below:

(2) Weapon Station 5 (061 00).

b. Electrical Fuzing Schematic (075 00).

a. Bomb/Mine Schematics.

3. Component locations are shown in WP008 00.

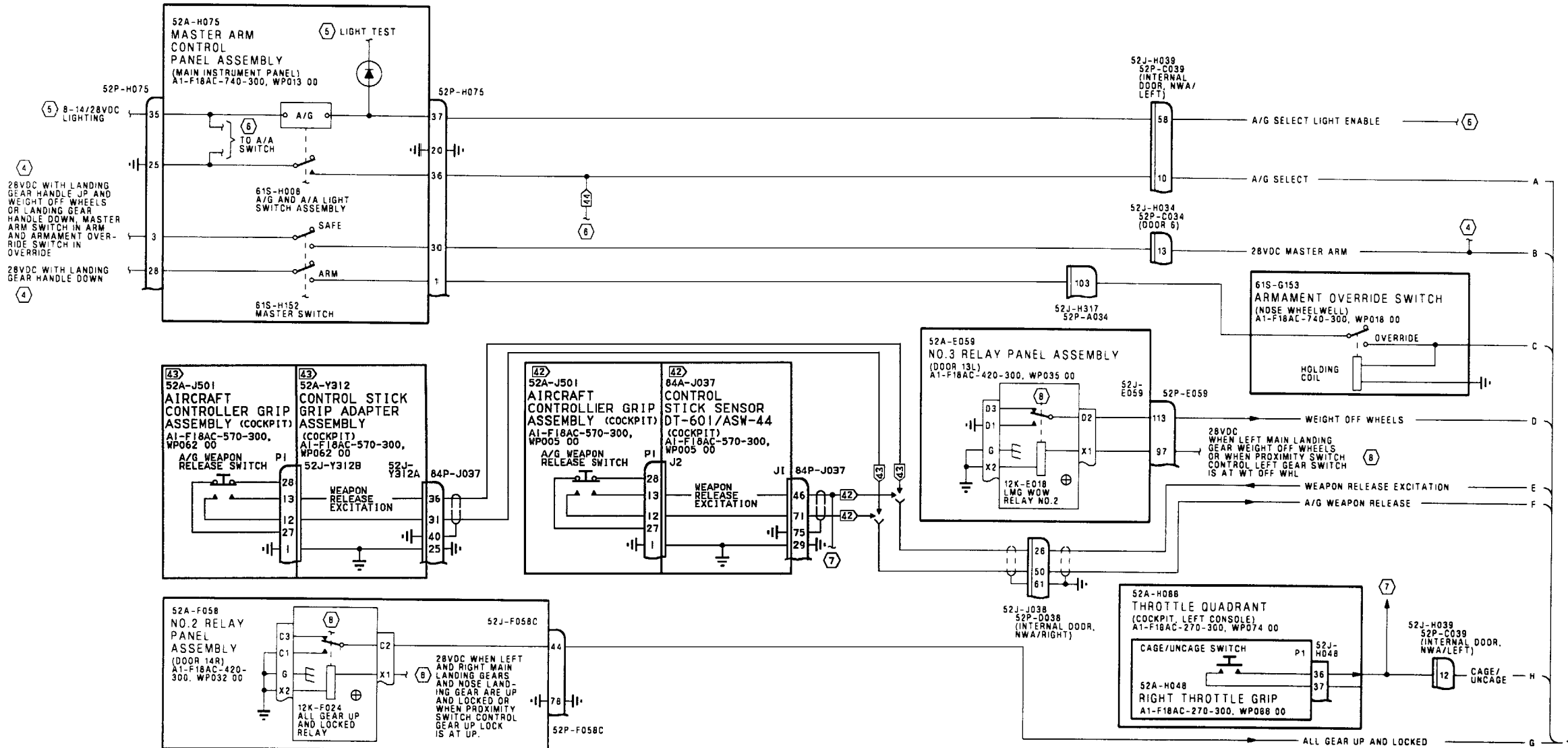
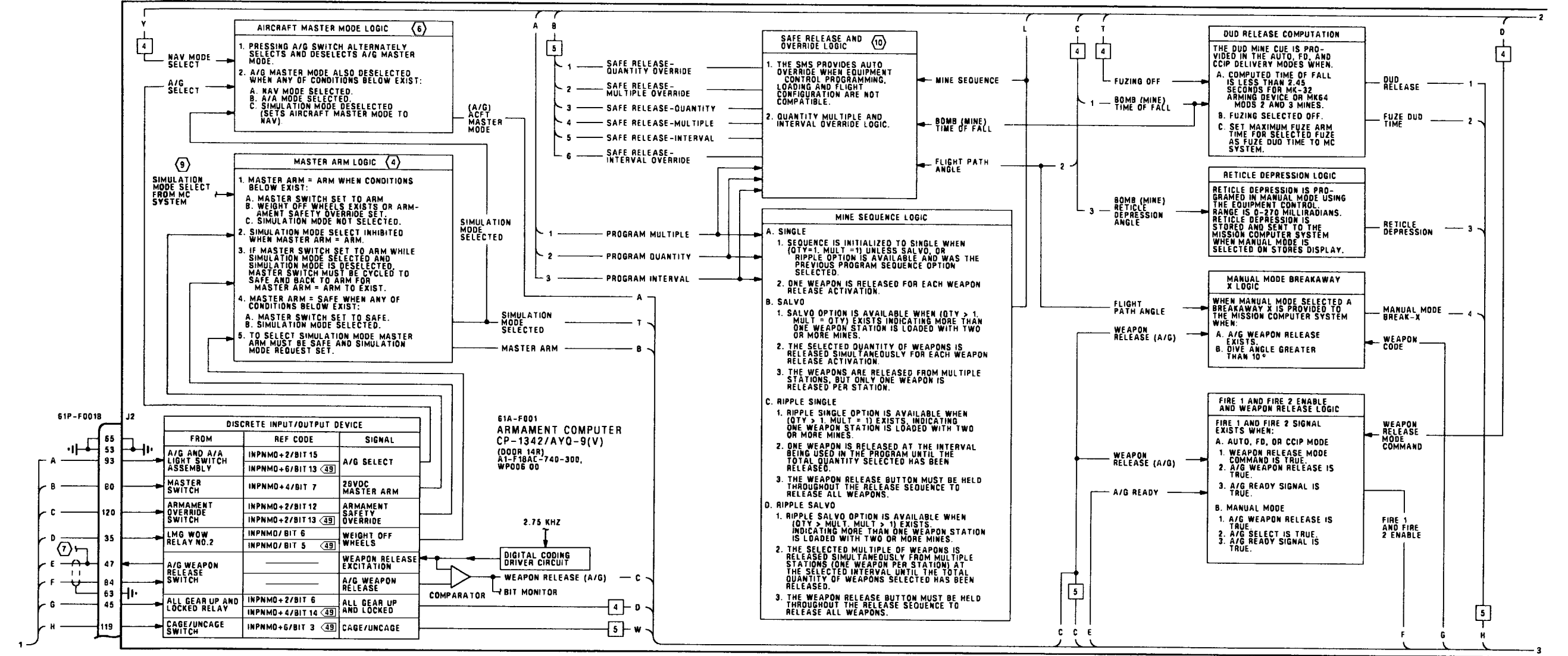


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 1)



06400102
Figure 1.

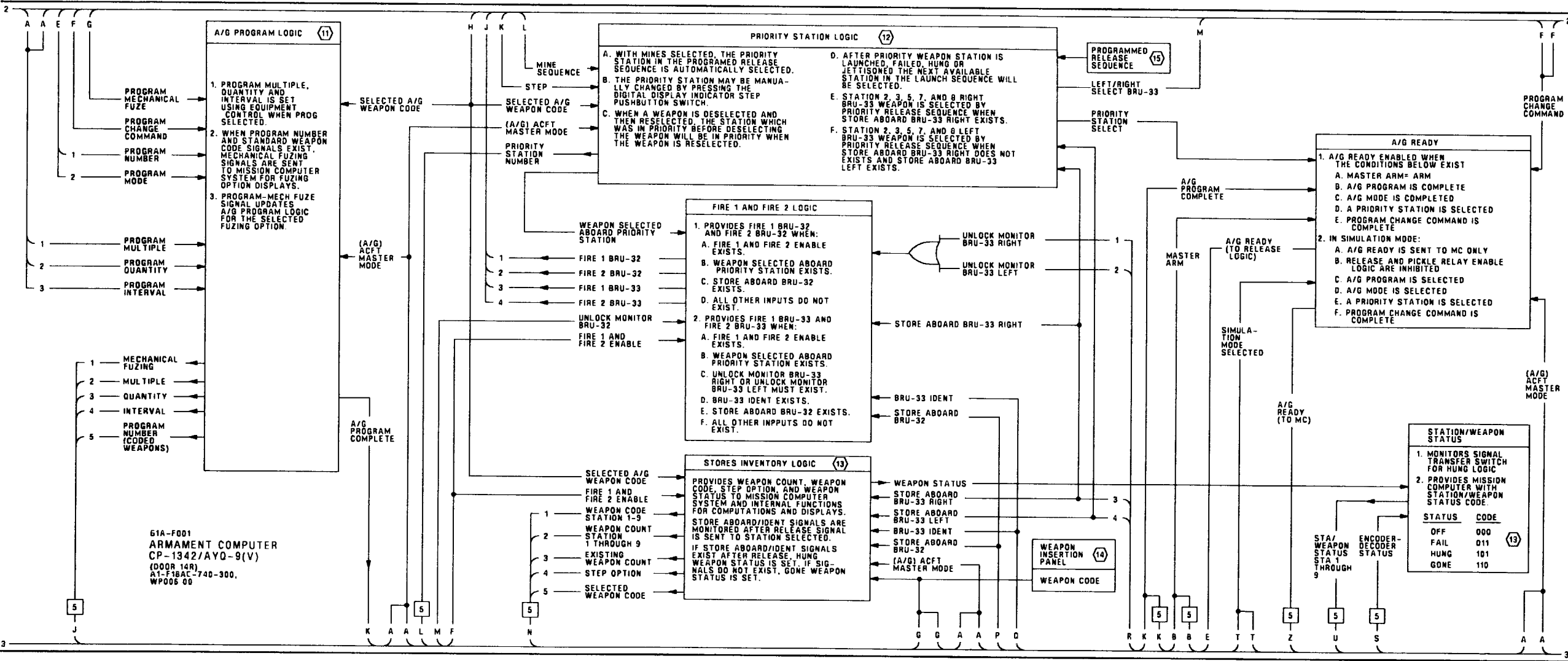
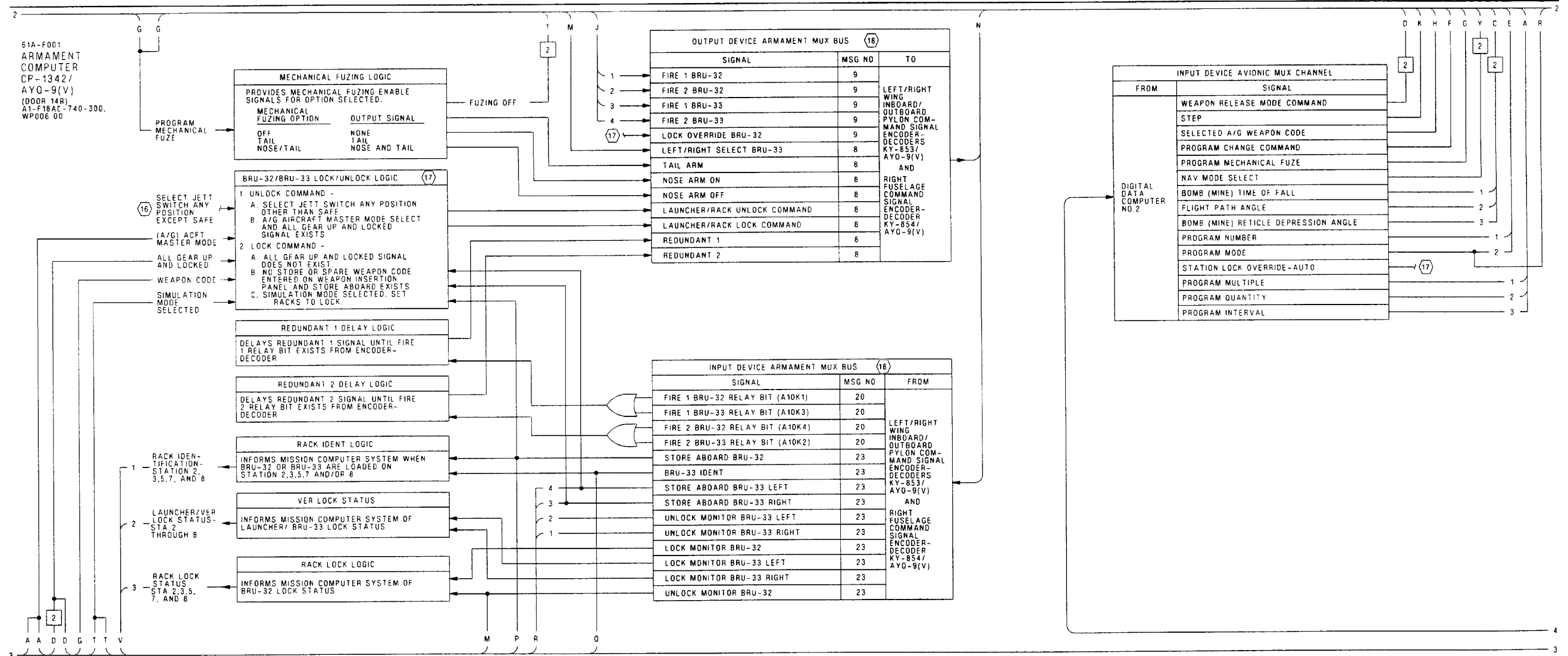


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 3)

06400103
Figure 1.



06400104
Figure 1.

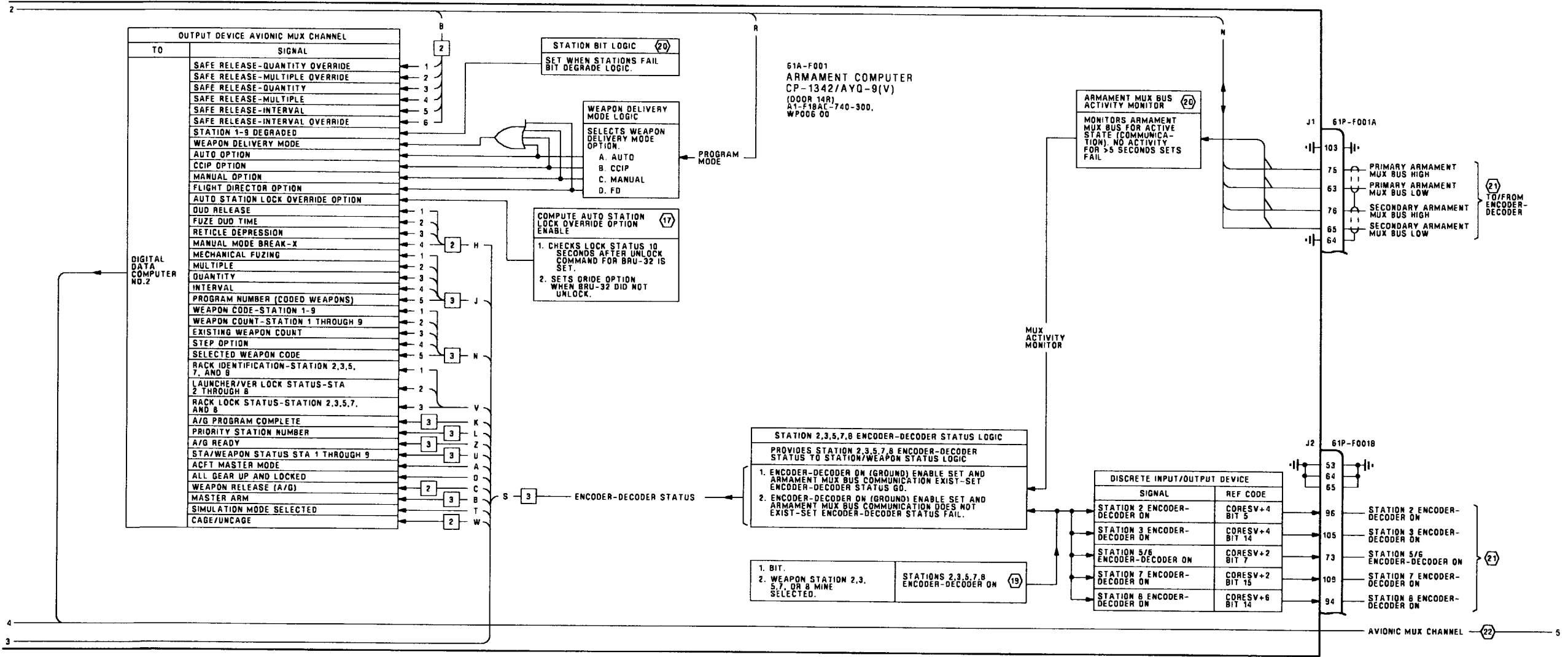


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 5)

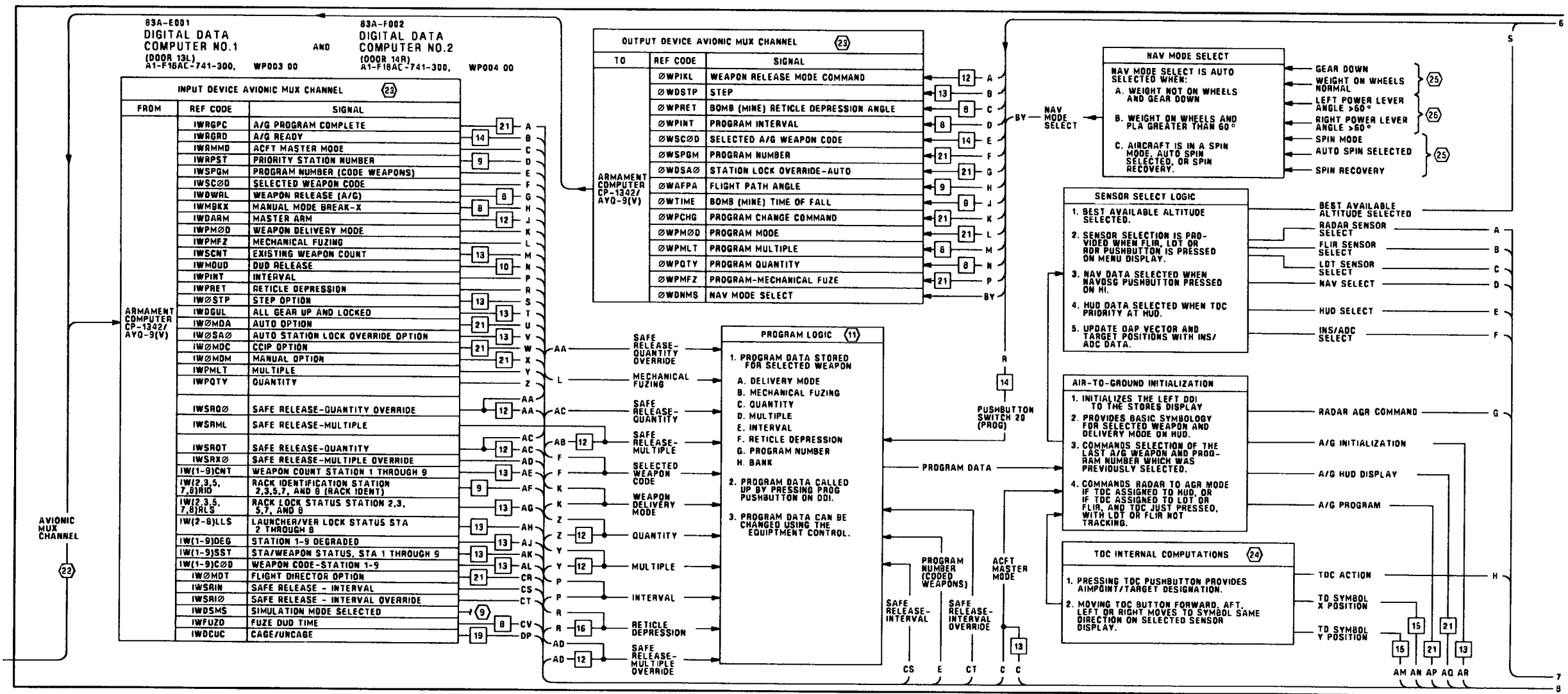


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 6)

Figure 1.

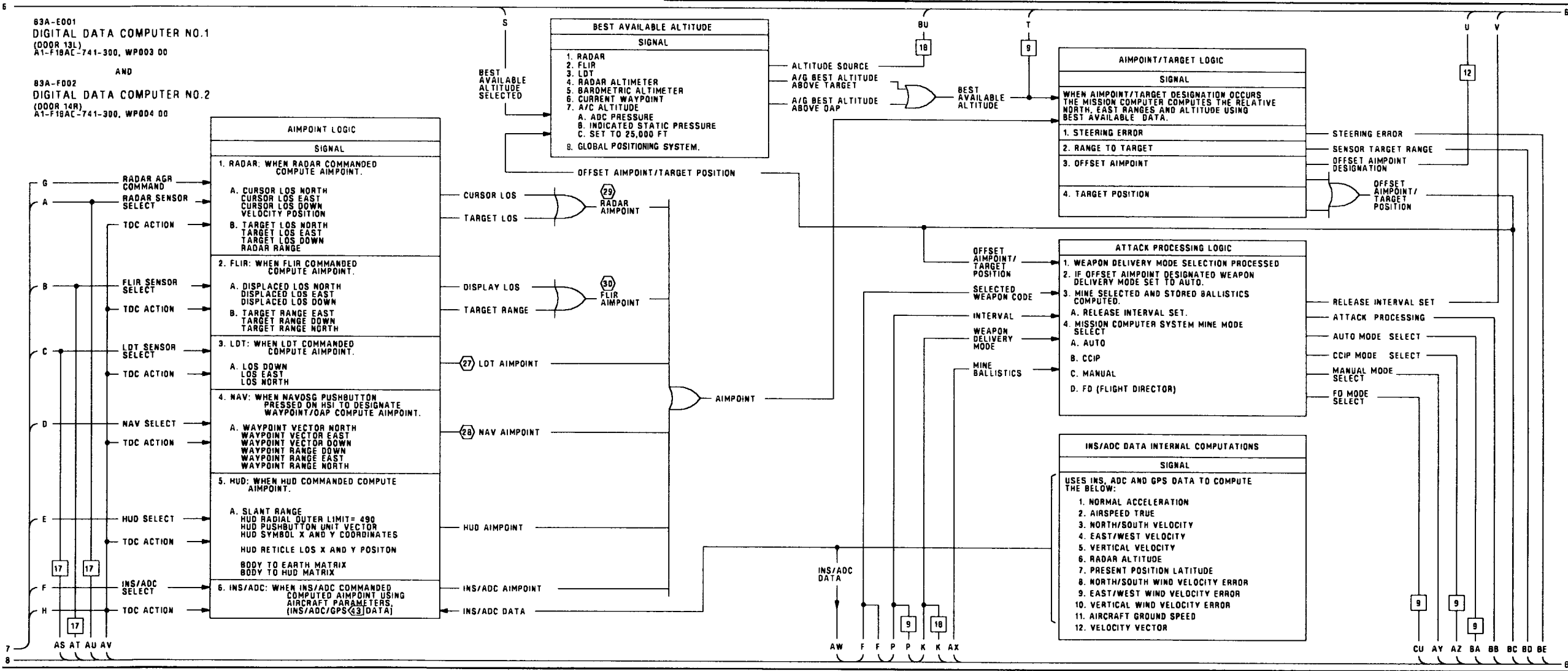


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 7)

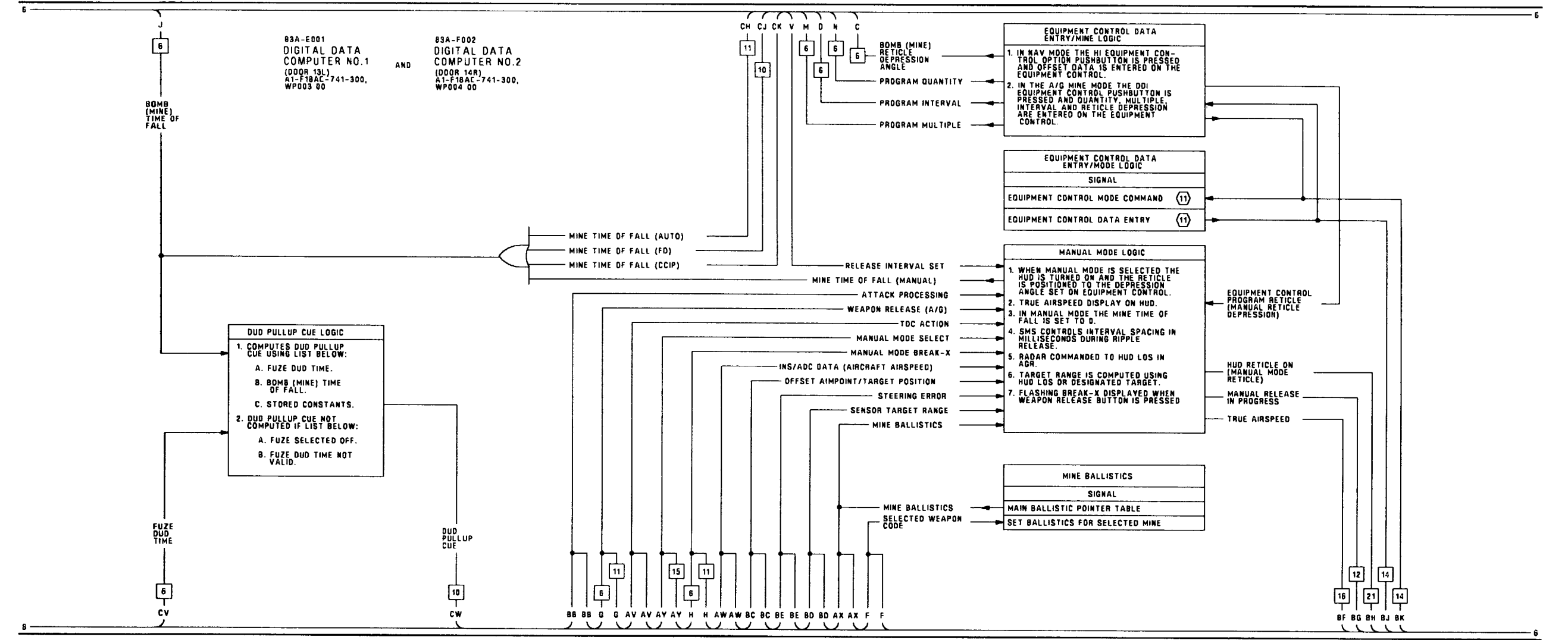


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 8)

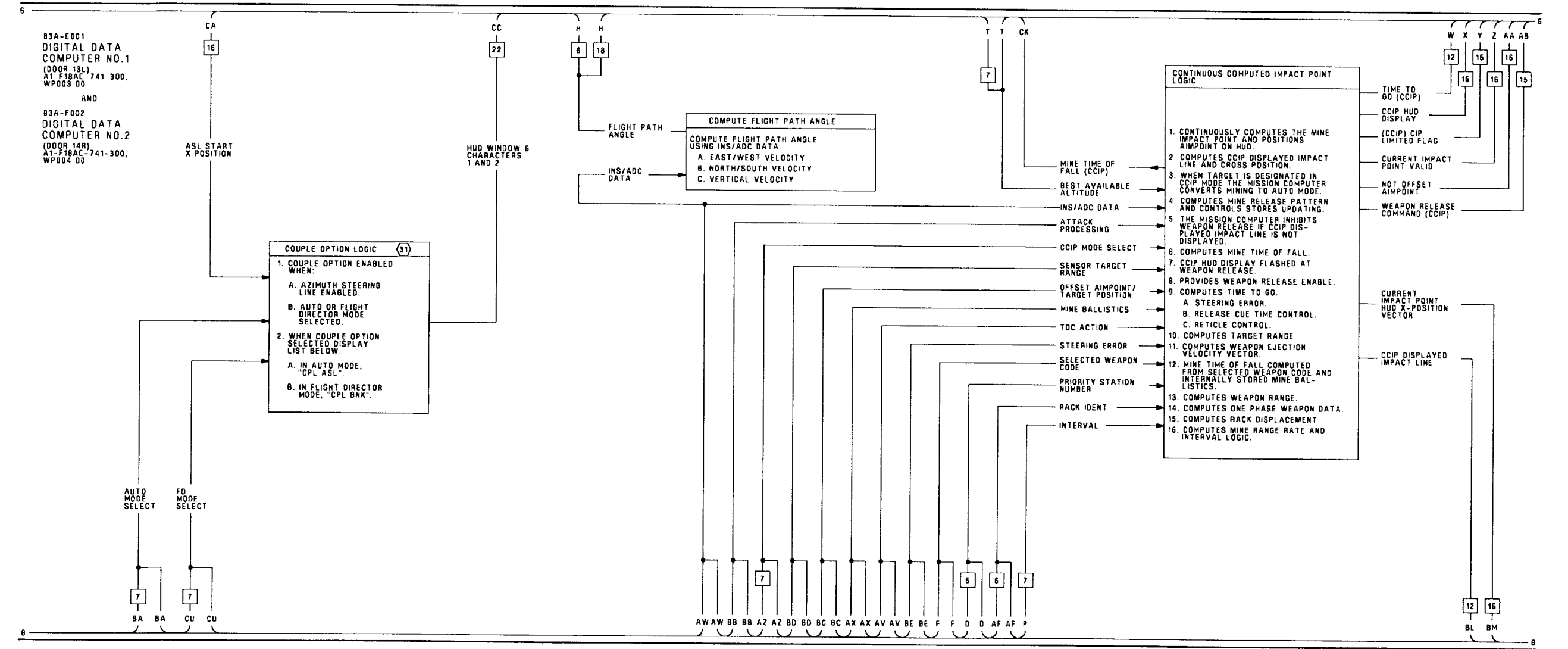


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 9)

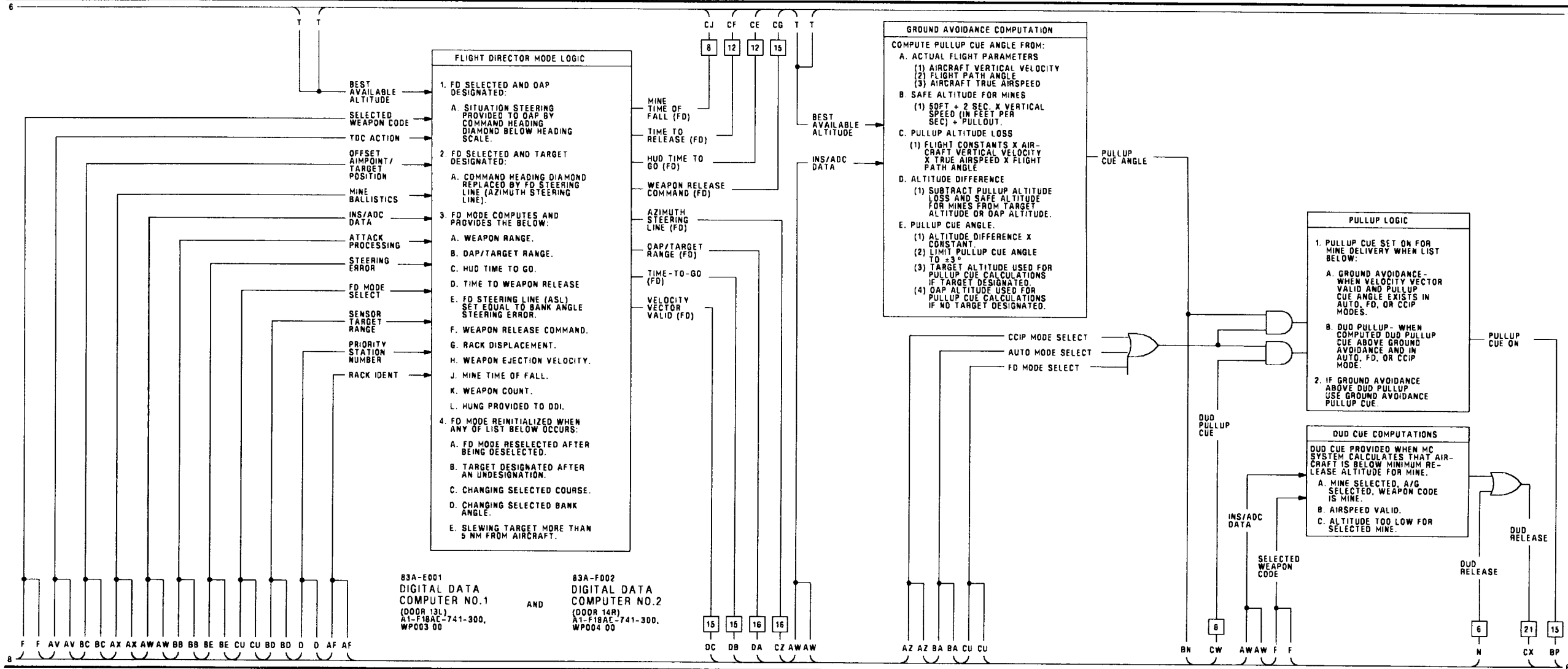


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 10)

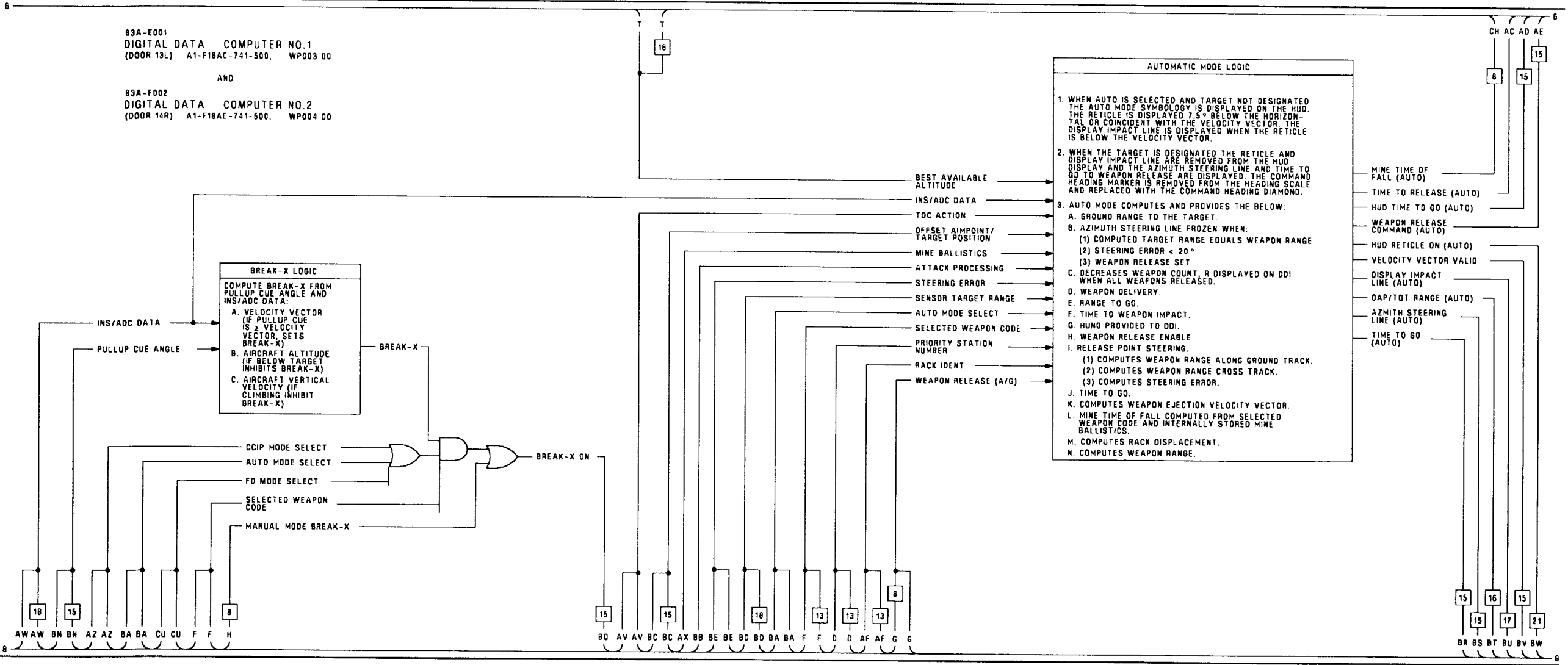


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 11)

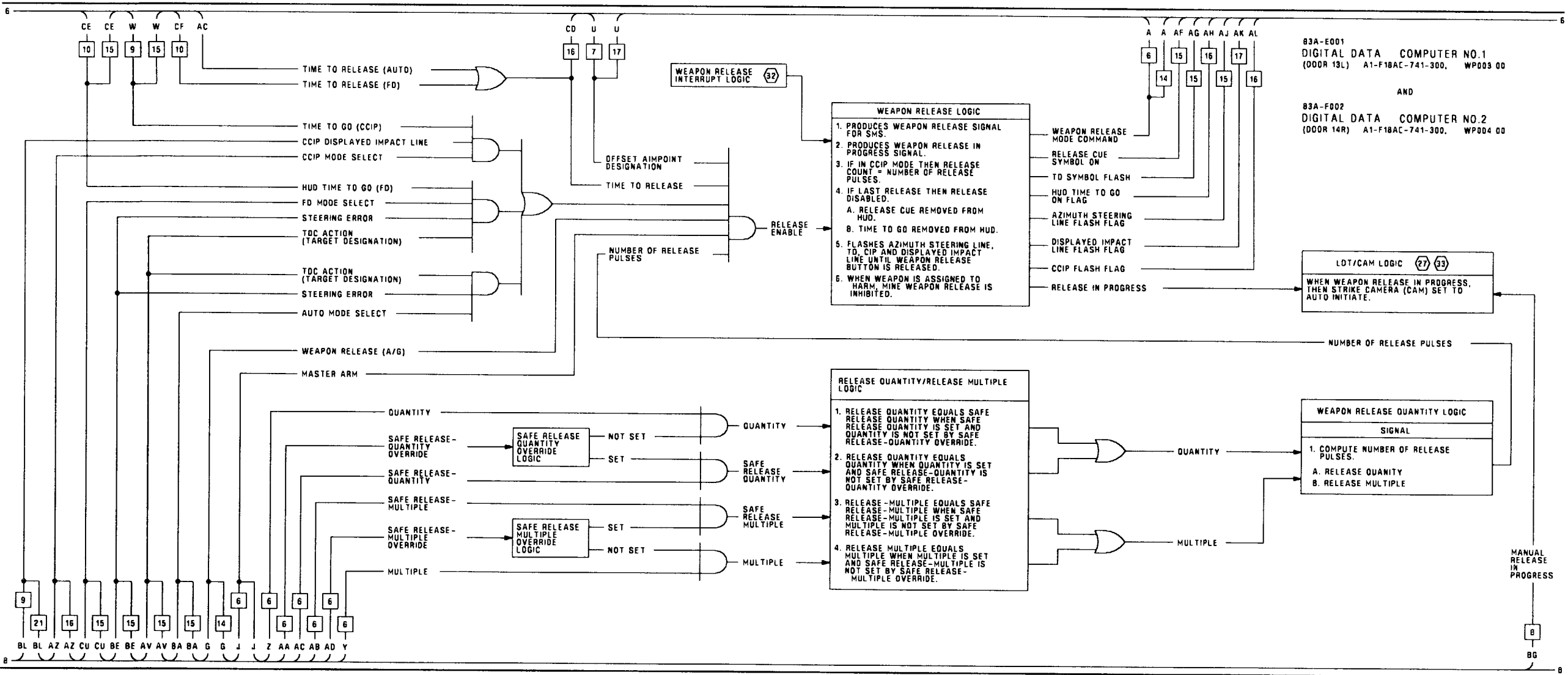


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 12)

06400112
Figure 1.

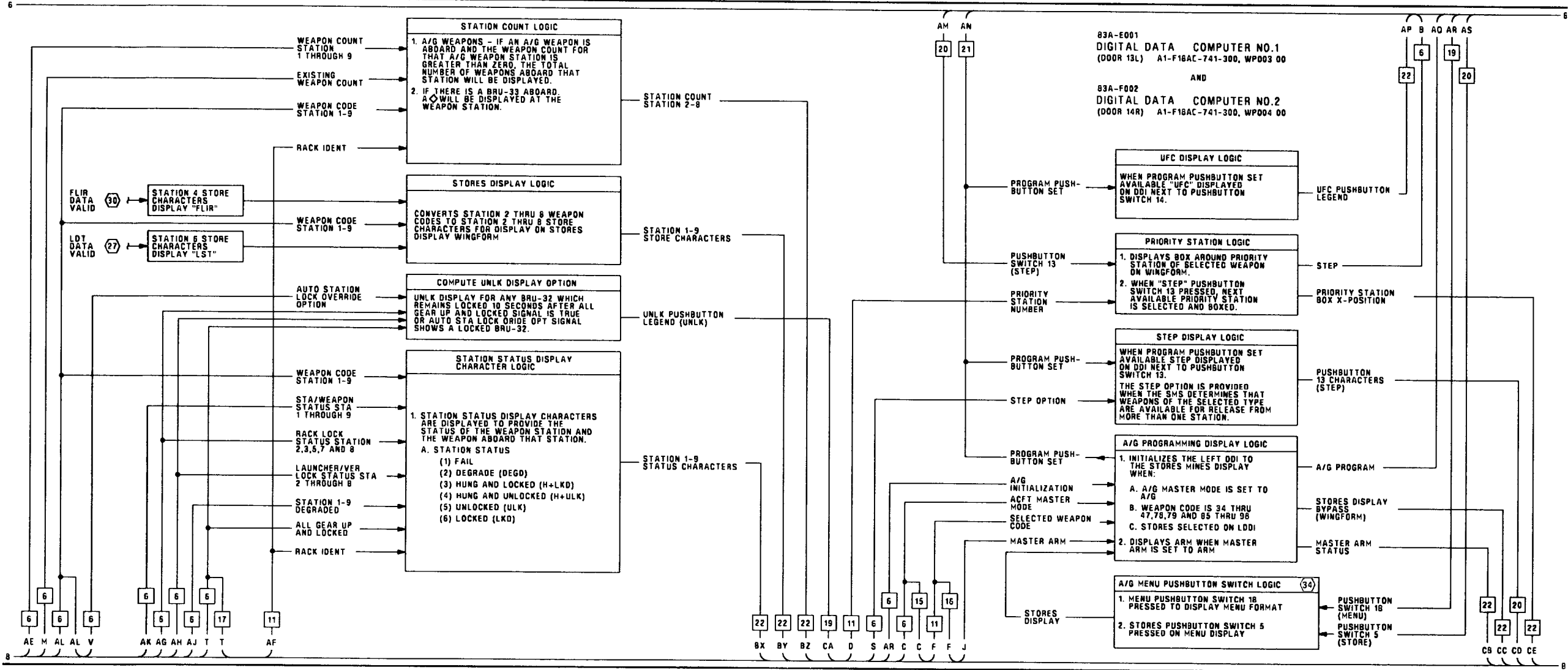
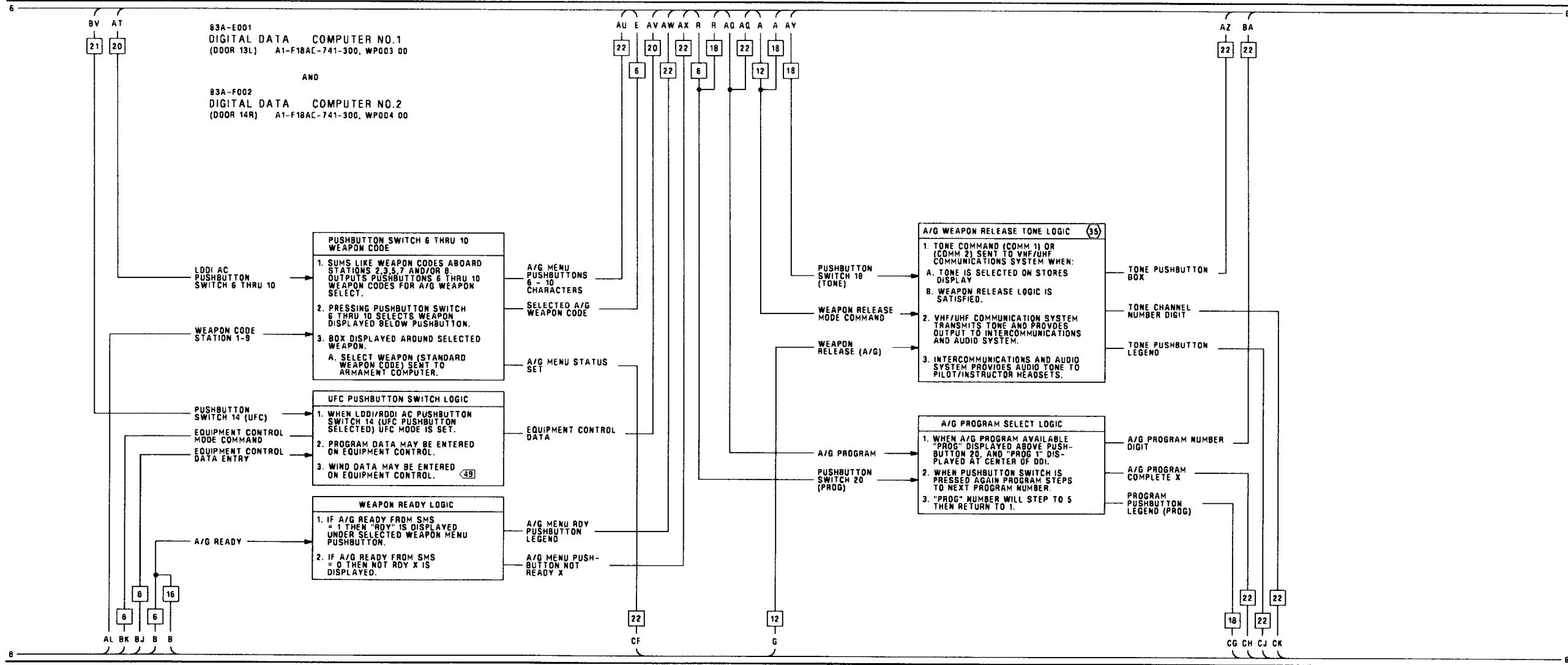


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 13)



06400114
Figure 1.

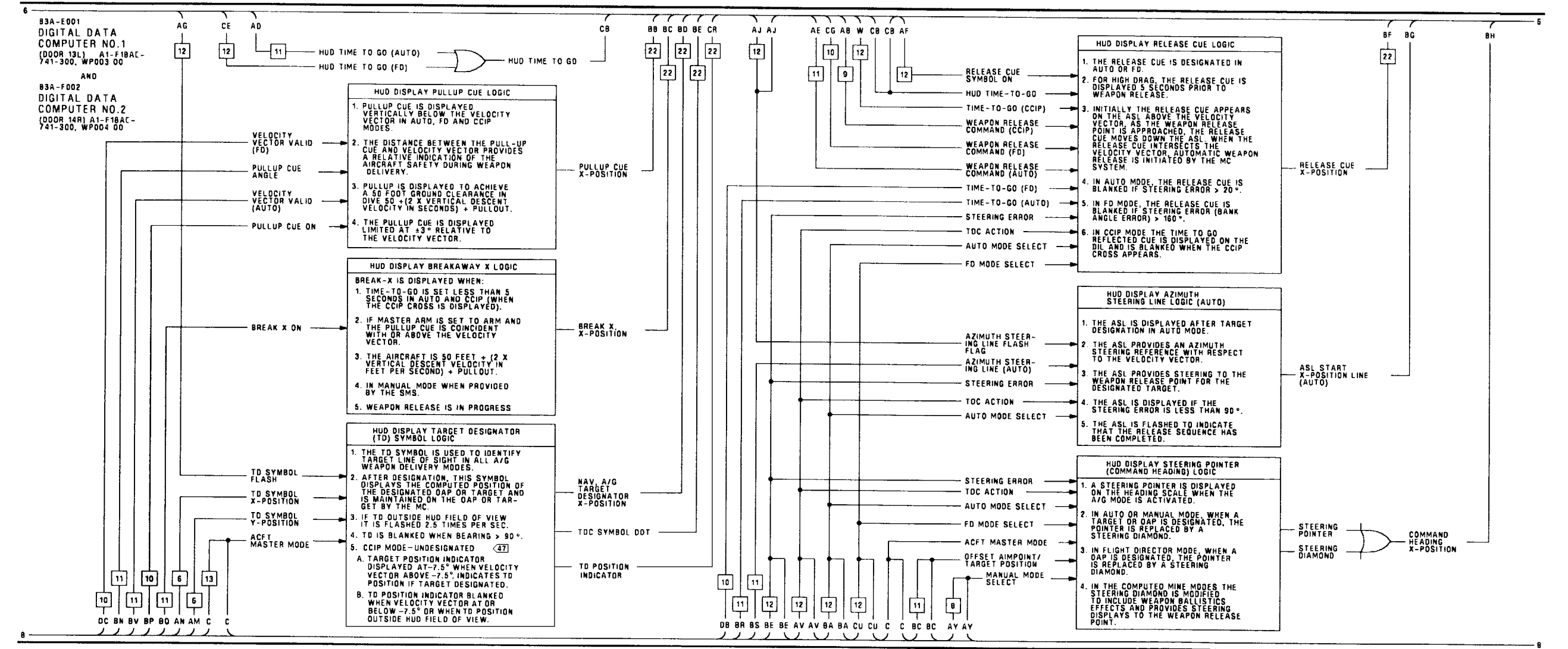


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 15)

06400115
Figure 1.

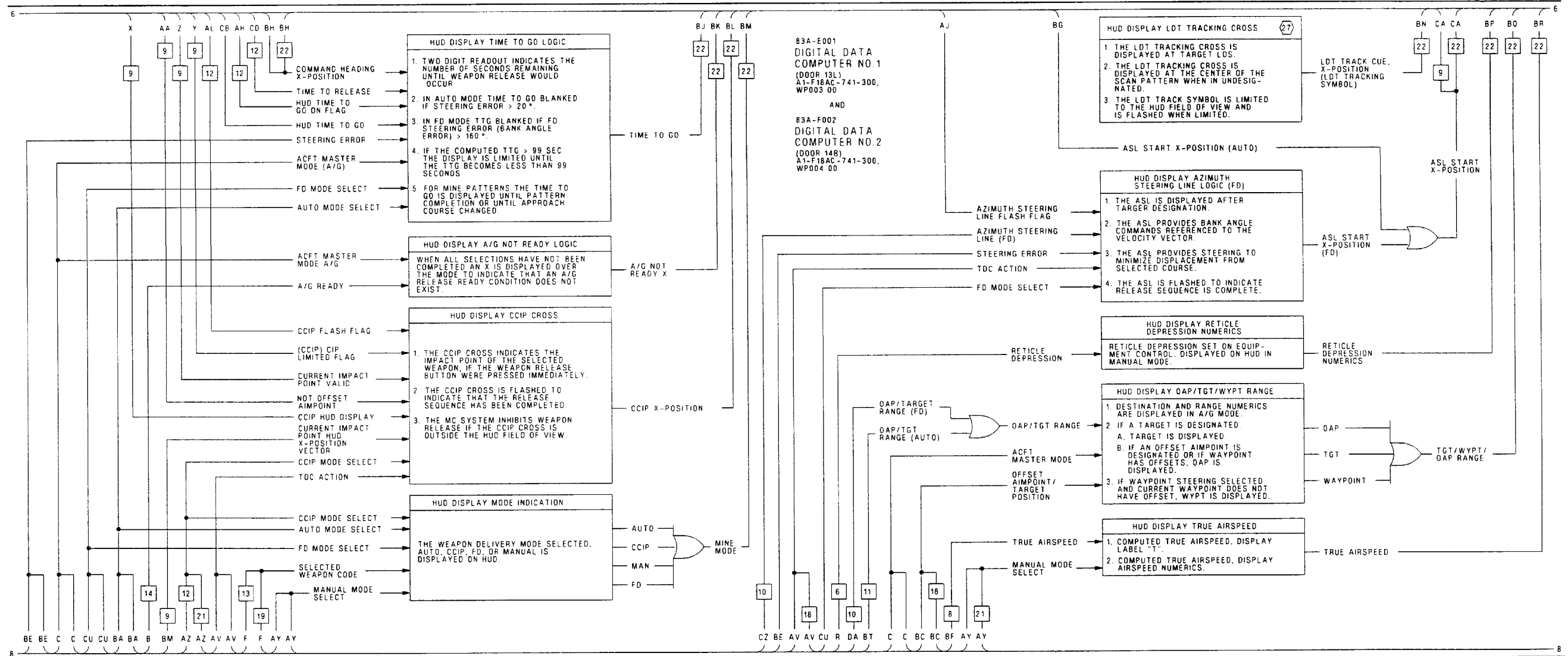


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 16)

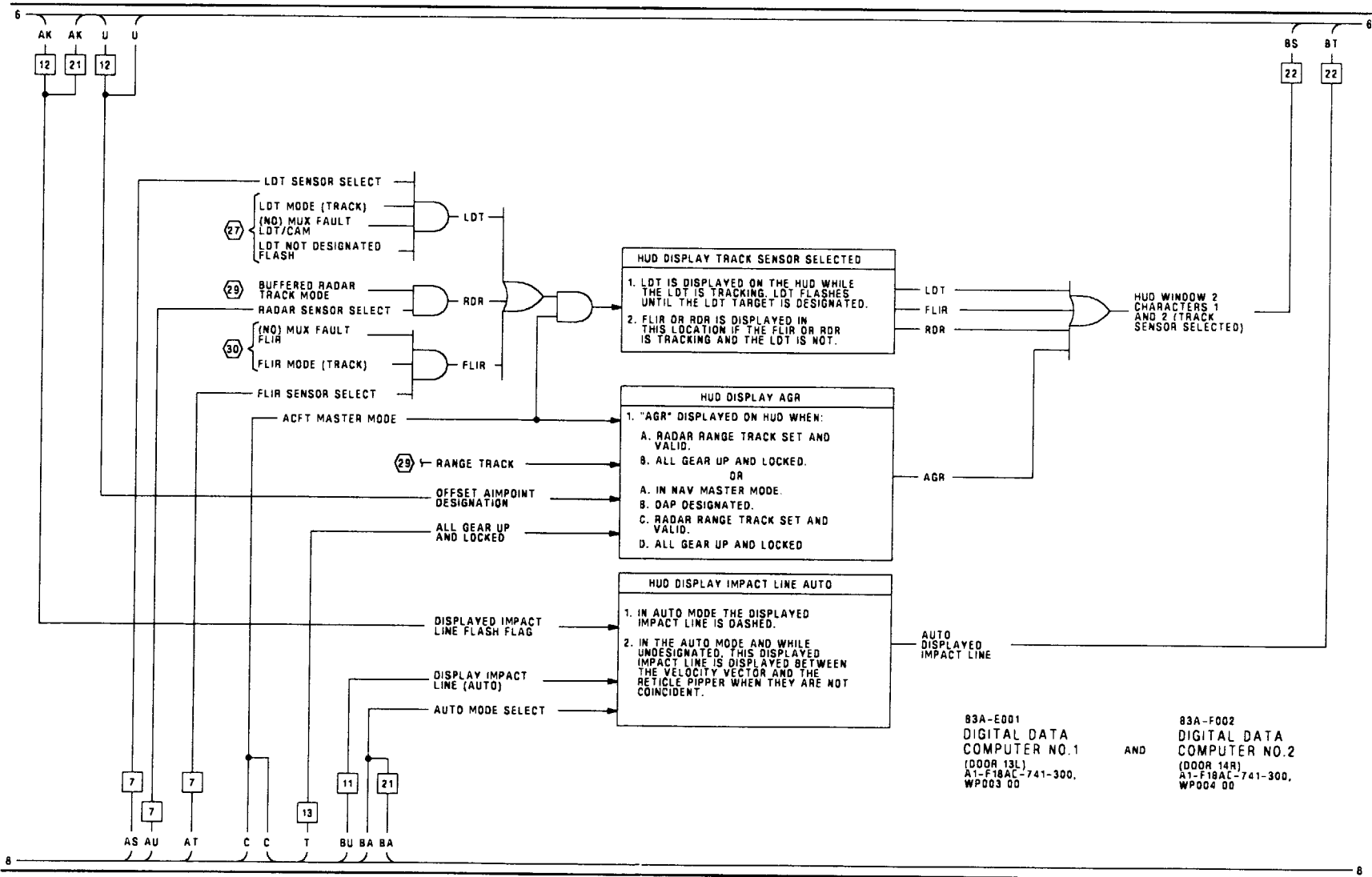


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 17)

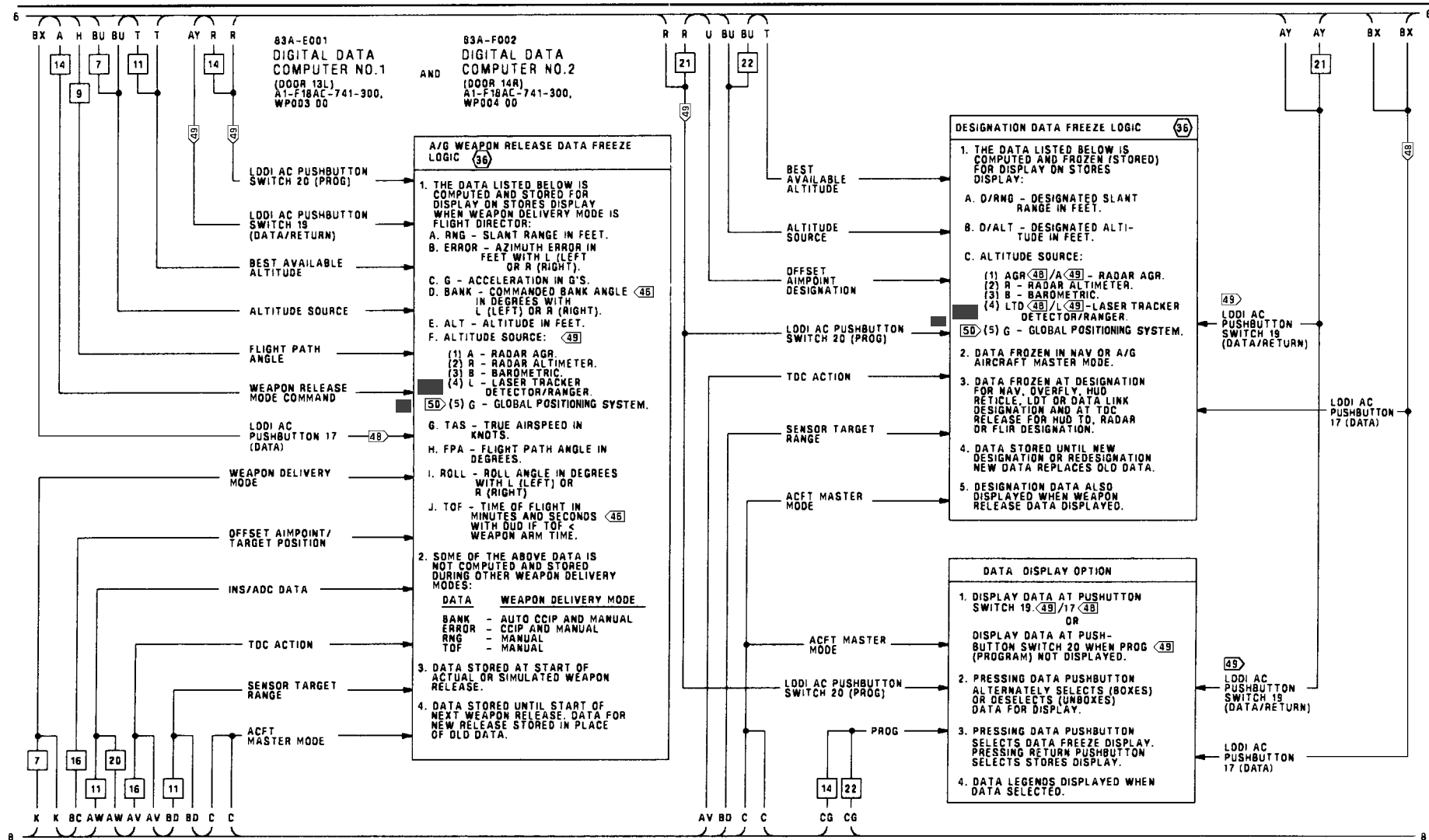


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 18)

06400118
Figure 1.

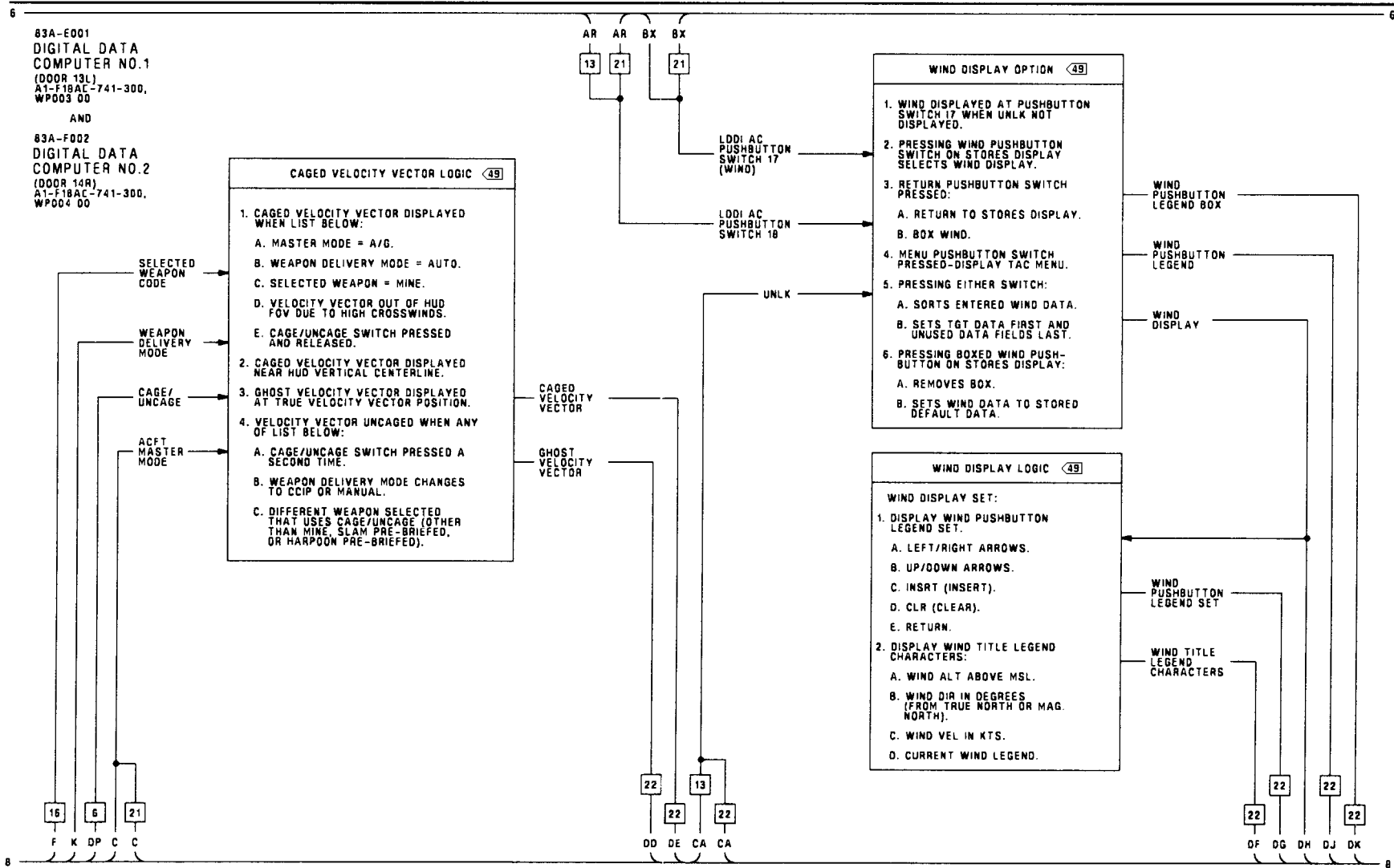
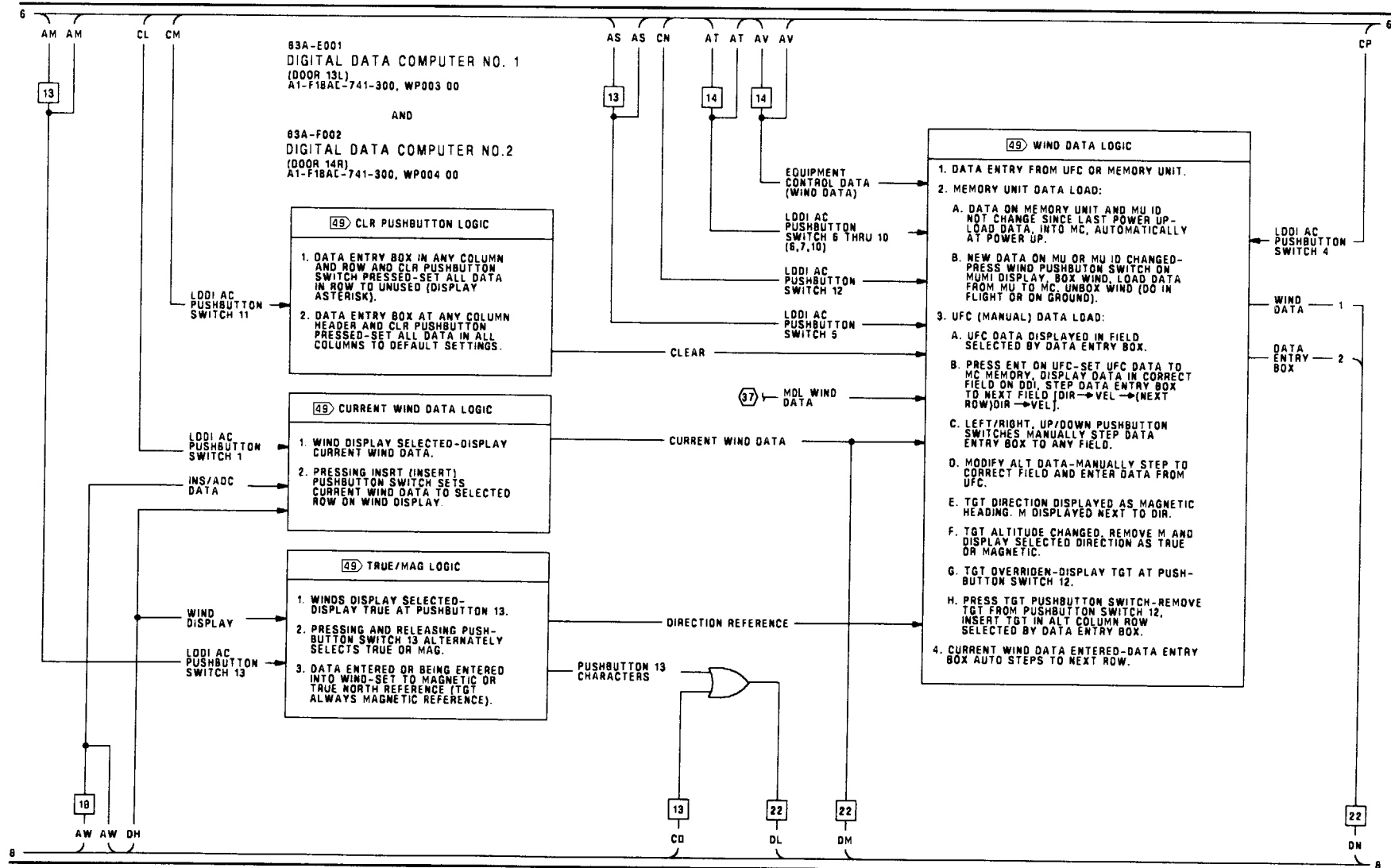


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 19)



06400120
Figure 1.

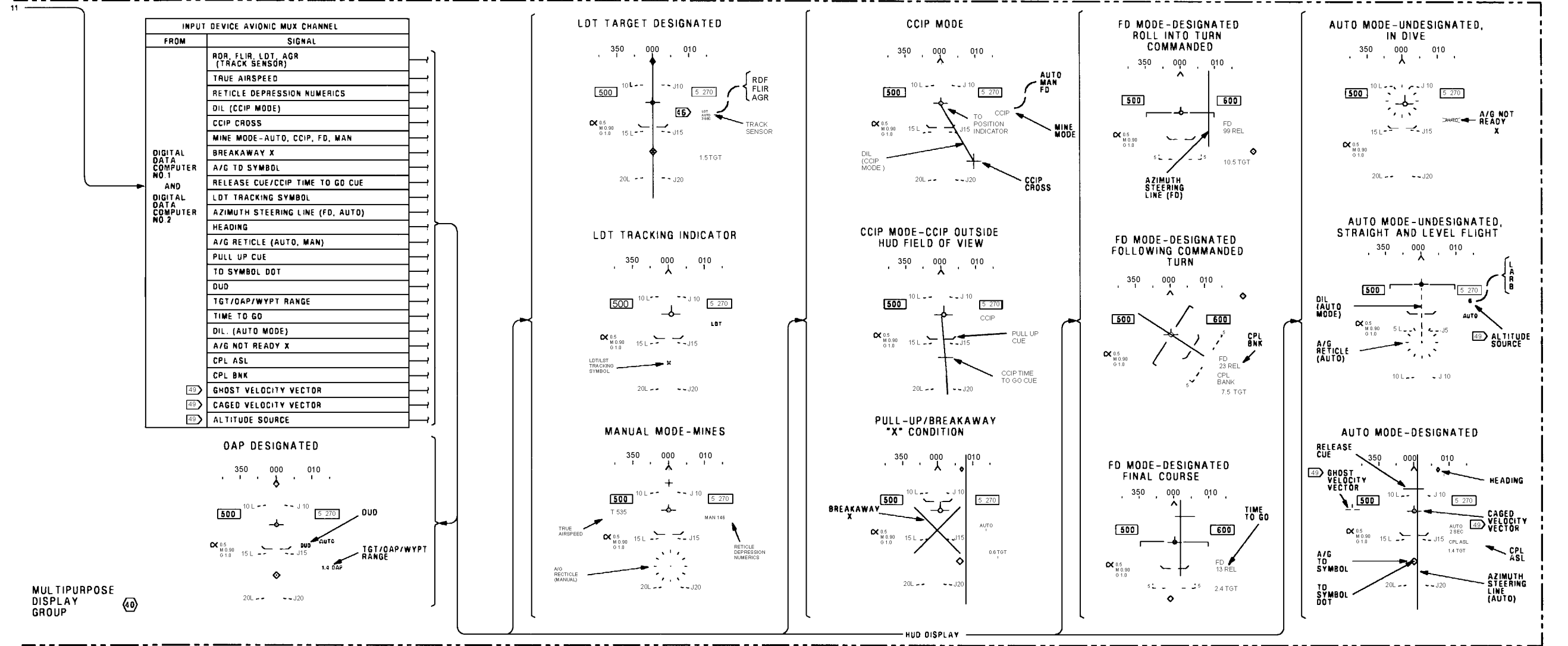


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 21)

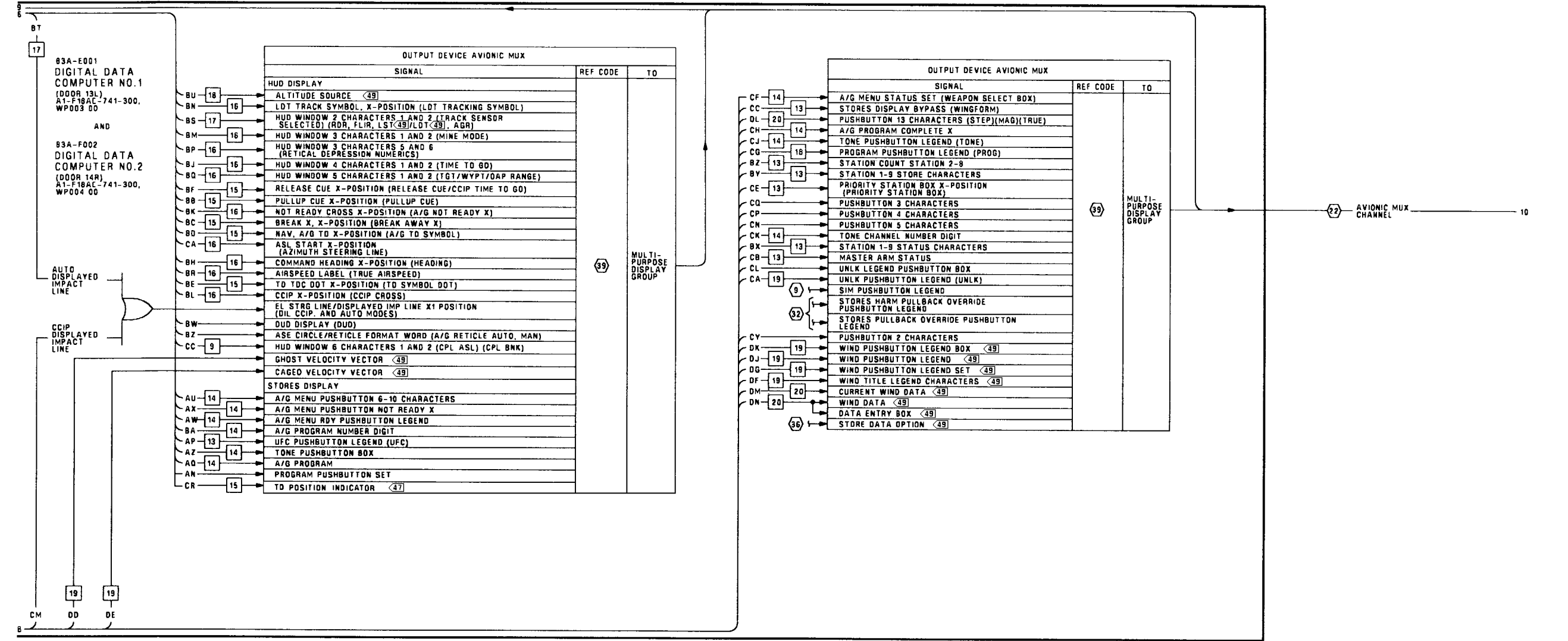


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 22)

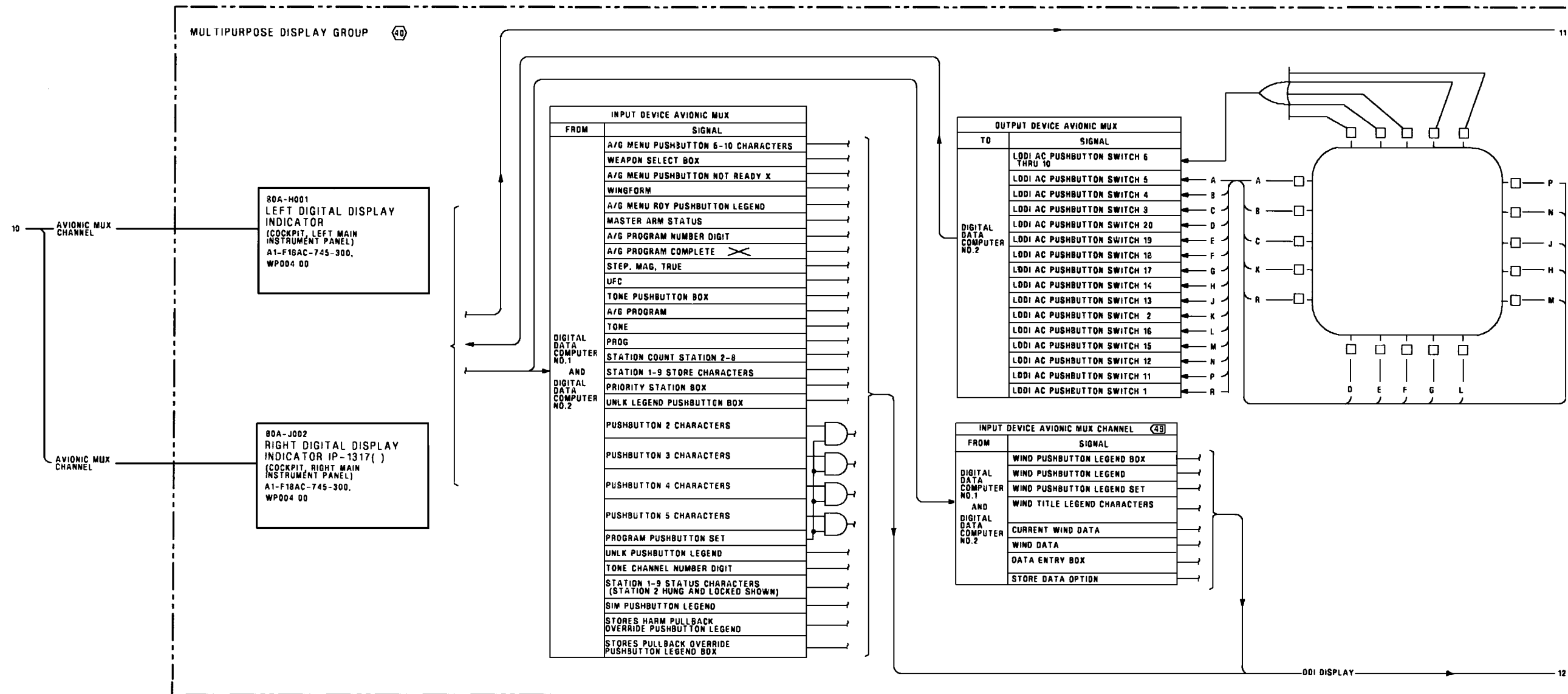


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 23)

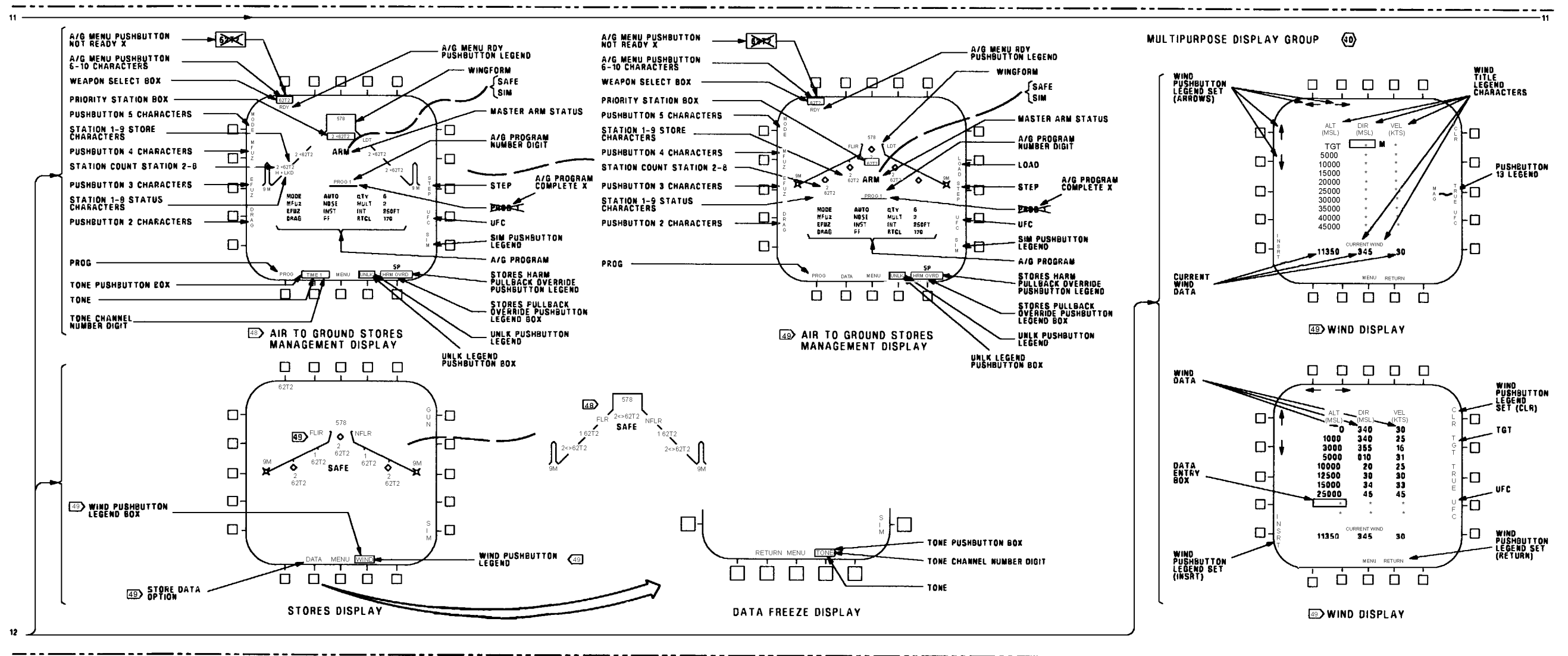


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 24)

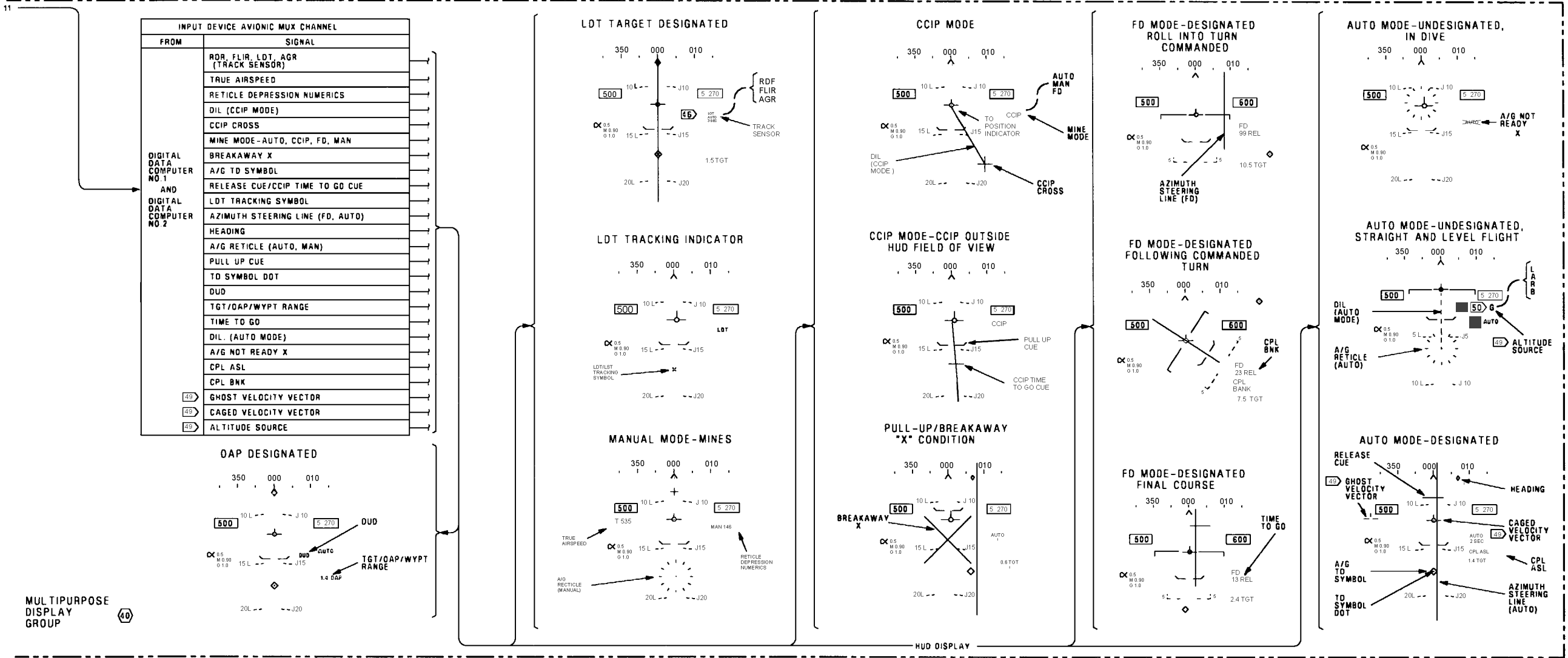


Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 25)

LEGEND			
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST: A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000. B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY. C. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY.	19	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
		20	BUILT-IN-TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
		21	APPLICABLE WEAPON STATION BOMB/MINE SCHEMATIC: WEAPON STATION 2, 3, 7, AND 8 BOMB/MINE SCHEMATIC, WP060 00. WEAPON STATION 5 BOMB/MINE SCHEMATIC, WP061 00.
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	22	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP010 00.
4	MASTER ARM SCHEMATIC, WP017 00.	23	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
5	COCKPIT WARNING/ADVISORY LIGHTING SYSTEM SCHEMATIC, A1-F18AC-440-500, WP006 00.	24	SENSOR CONTROL SWITCH AND THROTTLE DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.
6	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	25	CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 01.
7	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	26	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18A-570-500, WP029 00.
8	LANDING GEAR CONTROLLED RELAY SCHEMATIC, A1-F18AC-130-500, WP004 00.	27	ACQUISITION AND TRACK SCHEMATIC, A1-F18AC-742-500, WP010 00.
9	SIMULATION MODE SELECT SCHEMATIC, WP022 00.	28	NAVIGATION VELOCITY AND POSITION KEEPING FUNCTIONAL SCHEMATIC, A1-F18AC-744-500, WP018 00.
10	QUANTITY, MULTIPLE, AND INTERVAL OVERRIDE LOGIC TABLE, WP009 00.	29	AIR TO GROUND TRACK PROCESSING SCHEMATIC, A1-F18AC-742-500, WP039 00.
11	BOMB/MINE DELIVERY PROGRAM SELECT SCHEMATIC, WP065 00.	30	MODE SELECTION AND CONTROL FUNCTIONAL SCHEMATIC, A1-F18AC-744-500, WP008 00.
12	WEAPON SELECT SCHEMATIC, WP016 00.	31	AUTOPILOT FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP030 00.
13	STORES INVENTORY SCHEMATIC, WP015 00.	32	AGM-88 HARM ARMAMENT COMPUTER/COMMAND LAUNCH COMPUTER INTERFACE SCHEMATIC, WP063 00.
14	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.	33	SCAM CONTROL SCHEMATIC, A1-F18AC-743-500, WP013 00.
15	PRIORTIY WEAPON STATION RELEASE SEQUENCE, WP009 00.	34	MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP010 00.
16	SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.	35	AIR TO GROUND WEAPON RELEASE TONE SCHEMATIC, WP012 00.
17	LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.	36	DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
18	ARMAMENT MUX BUS DATA, WP011 00.	37	MISSION DATA LOADER FUNCTIONAL SCHEMATIC, A1-F18AC-580-500, WP009 00.
		38	IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION, TROUBLESHOOT USING: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		39	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		40	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.
		41	161353 THRU 161987 BEFORE F/A-18 AFC 48.
		42	161353 THRU 161519 BEFORE F/A-18 AFC 27.
		43	161520 AND UP; ALSO 161353 THRU 161519 AFTER F/A-18 AFC 27.
		44	F/A-18B.
		45	162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 48.
		46	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 87X AND UP (A1-F18AC-SCM-000).
		47	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 92A AND DIGITAL DATA COMPUTER CONFIG/IDENT 92A AND UP (A1-F18AC-SCM-000).
		48	162394 THRU 163175 BEFORE F/A-18 AFC 253 OR AFC 292.
		49	162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.
		50	AFTER F/A-18 AFC 231.

Figure 1.

Figure 1. Mine Avionic Interface Schematic (Sheet 26)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - BOMB/MINE DELIVERY PROGRAM SELECT

STORES MANAGEMENT SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows the bomb/mine program select functions.
3. Component locations are shown in WP008 00.

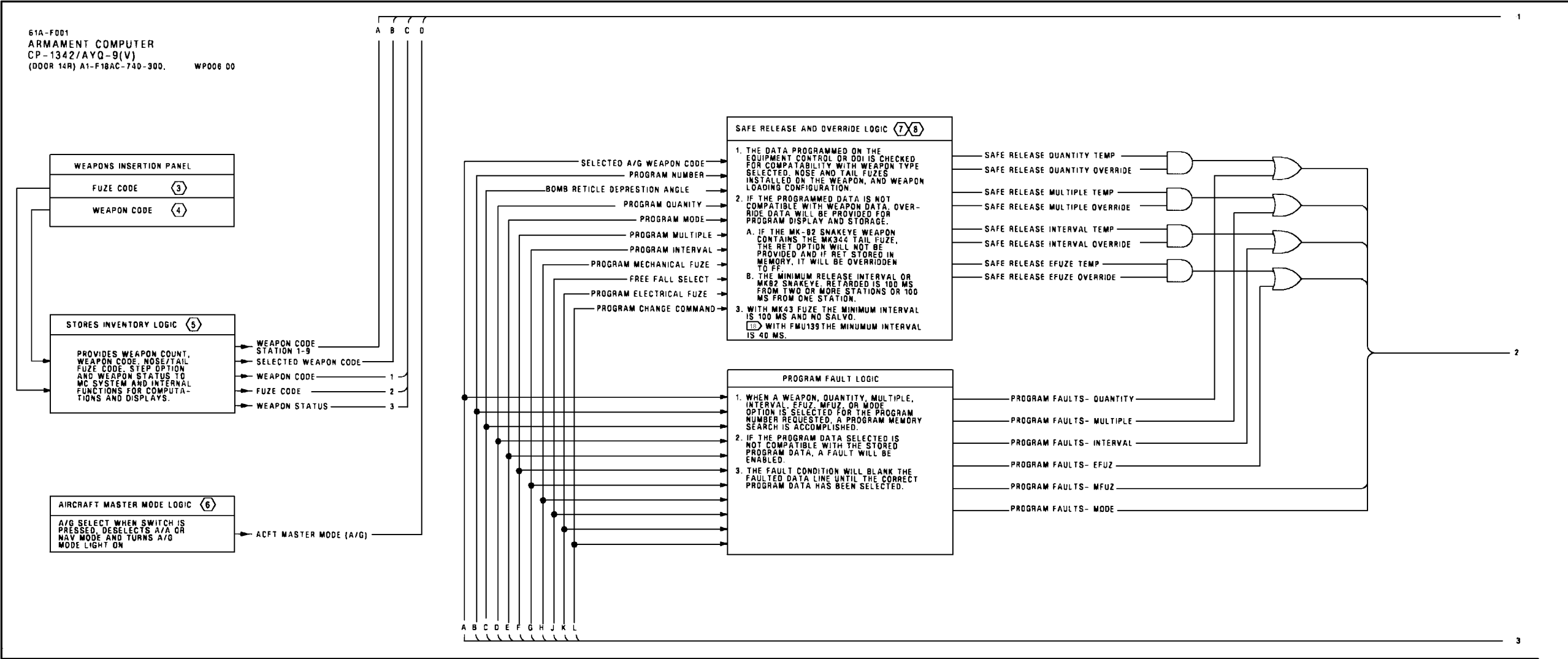


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 1)

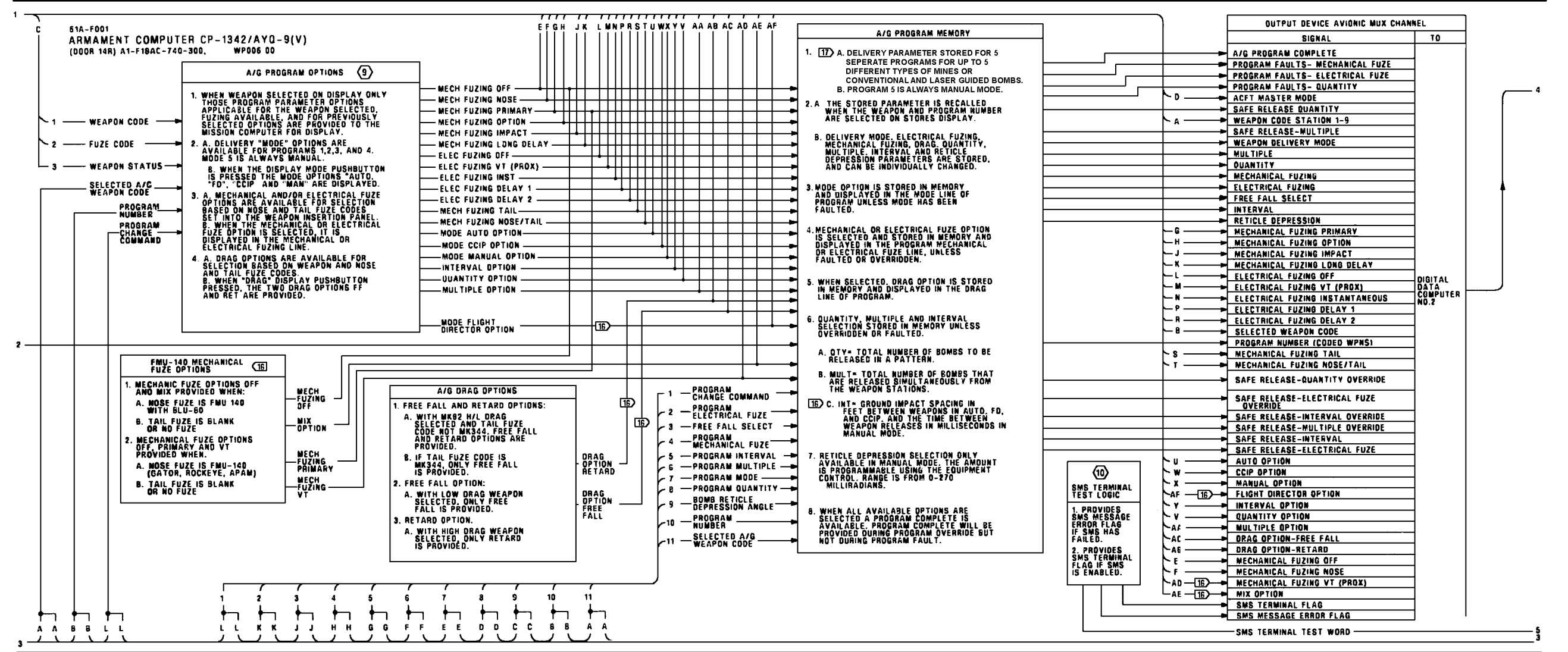


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 2)

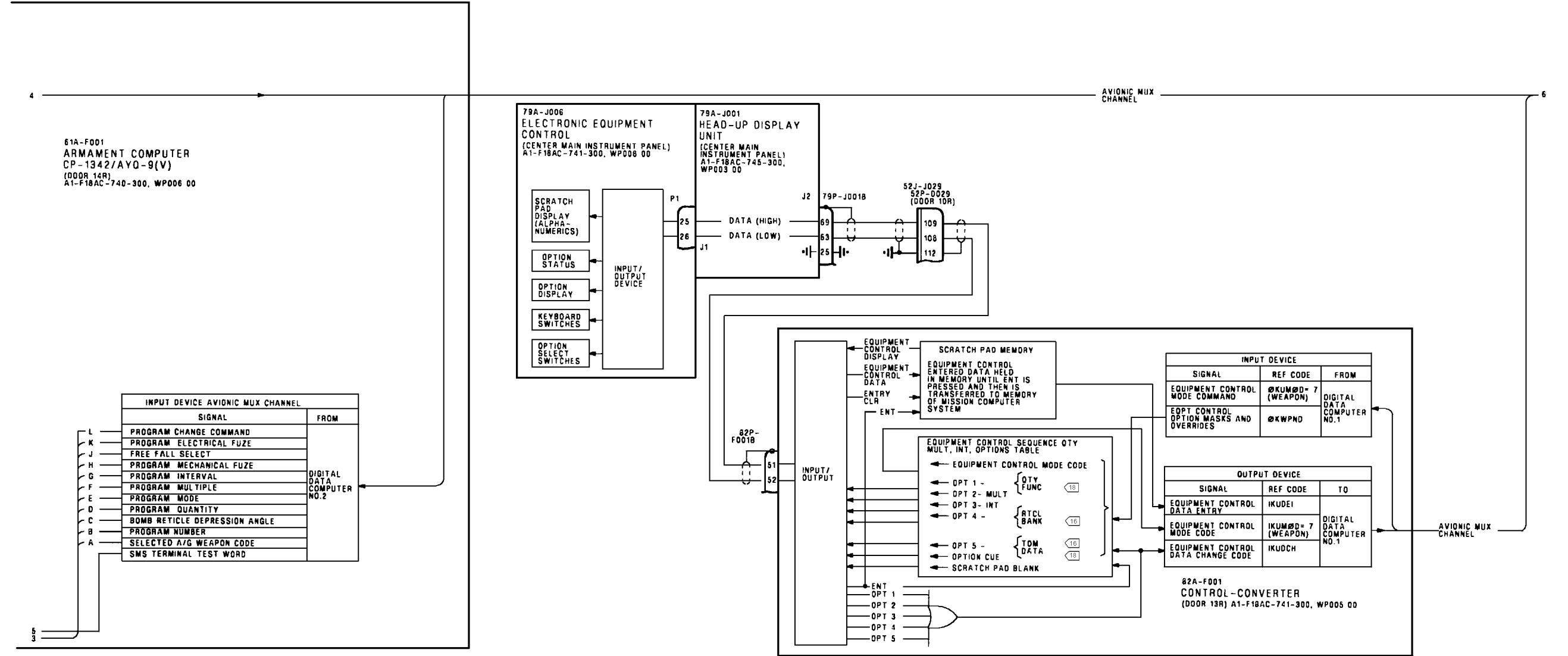


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 3)

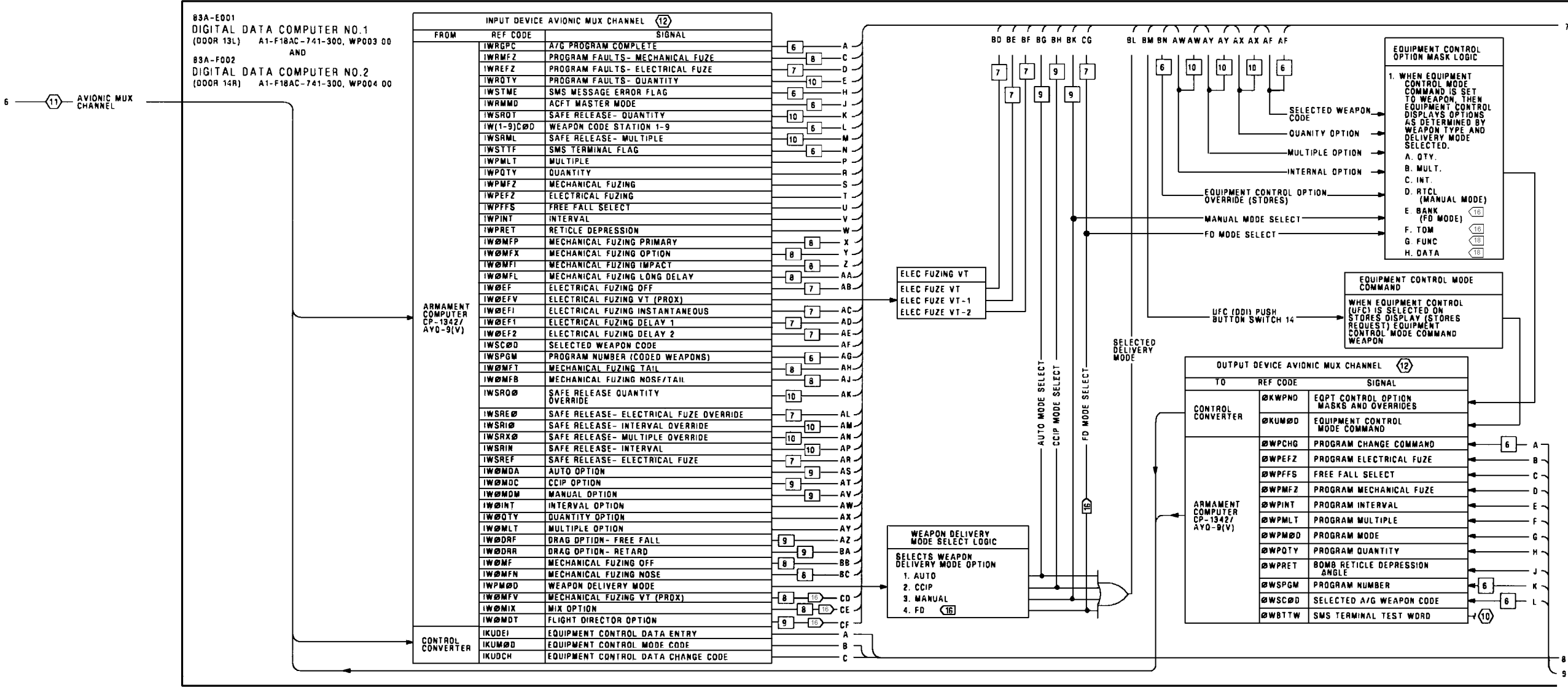


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 4)

Figure 1.

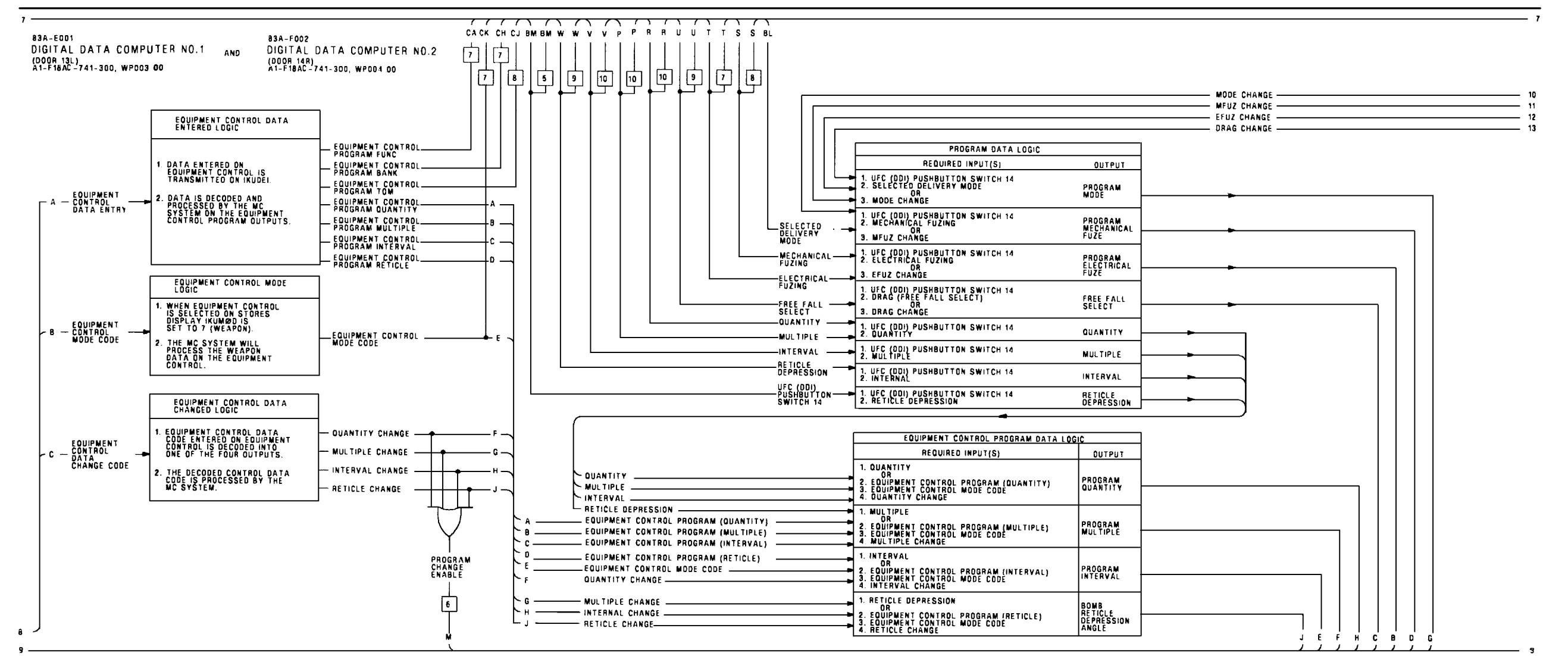


Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 5)

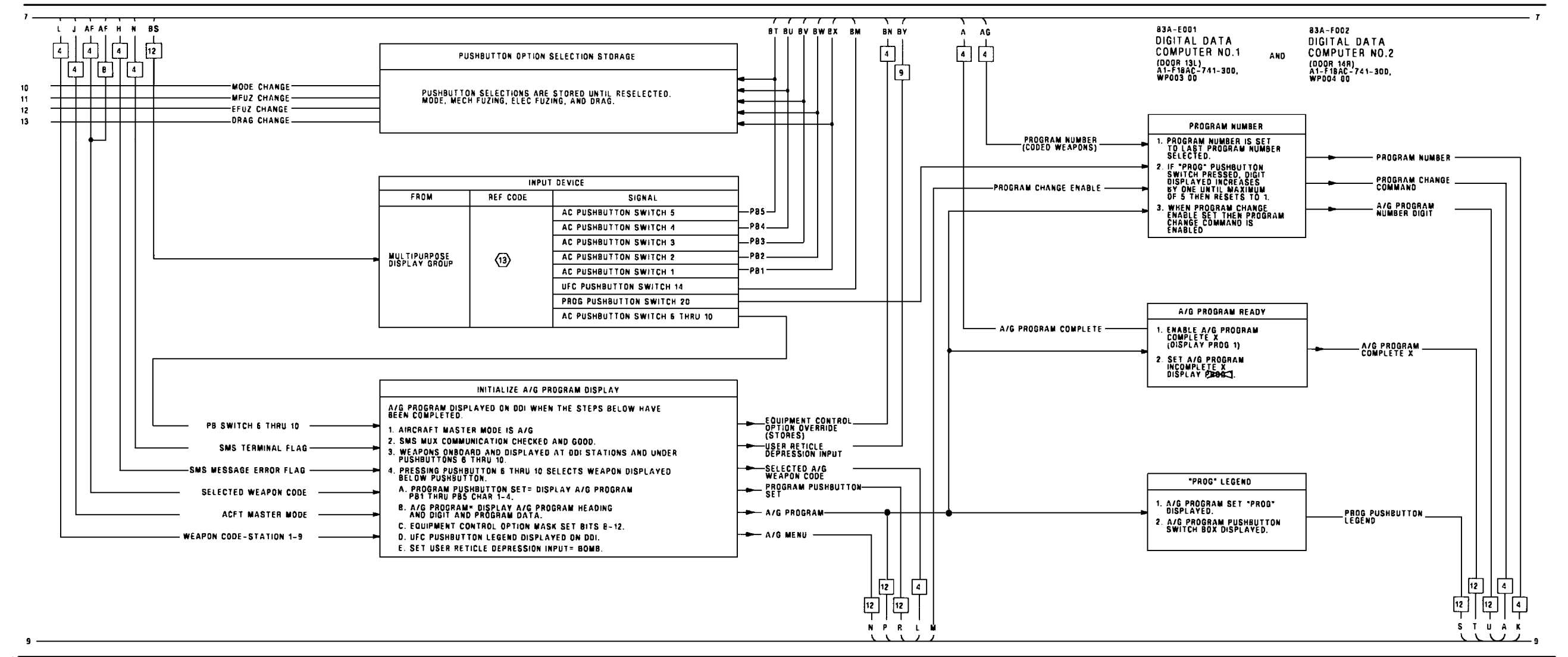


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 6)

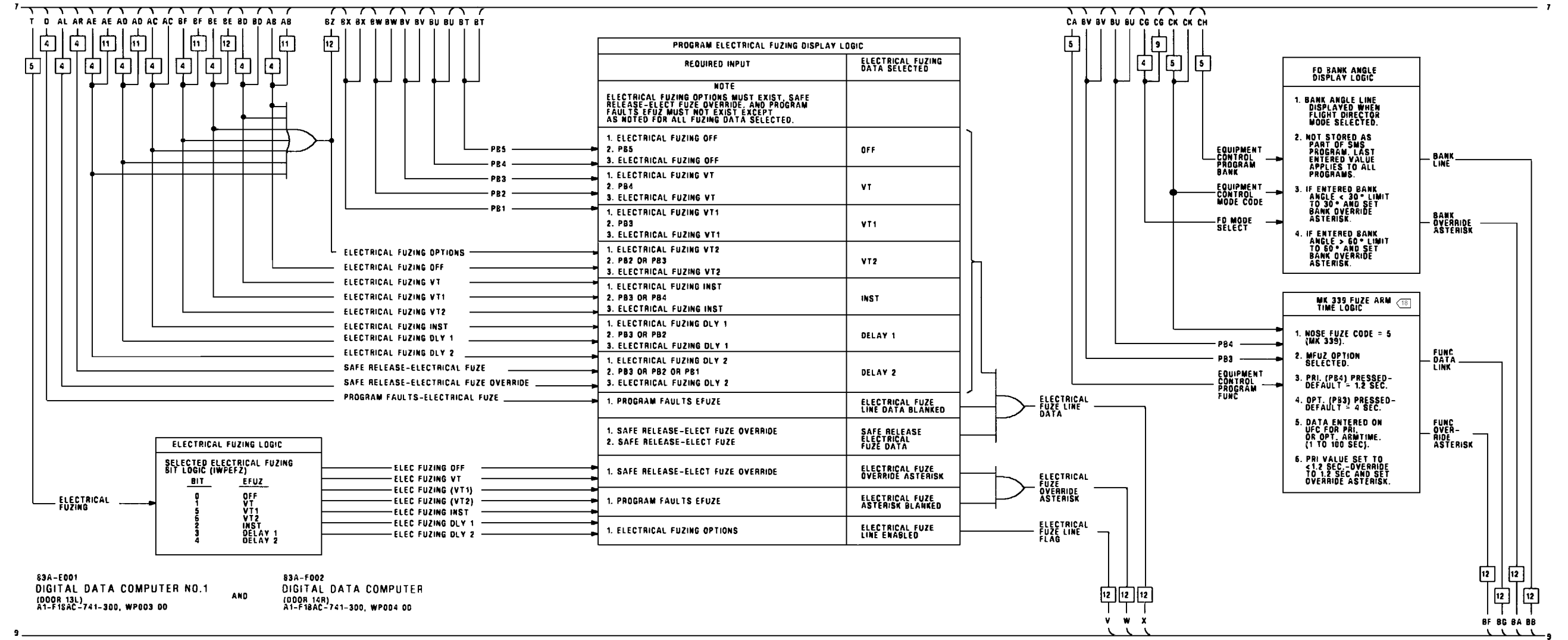


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 7)



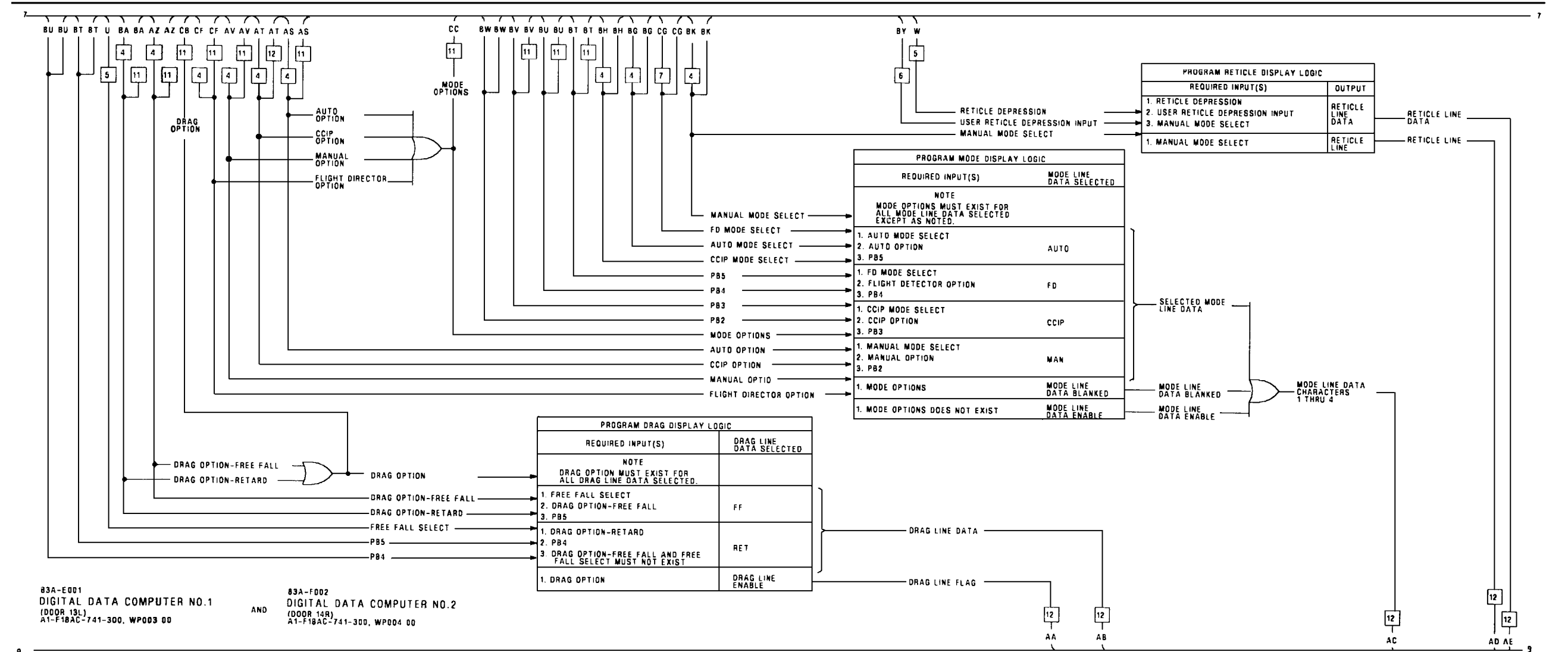


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 9)

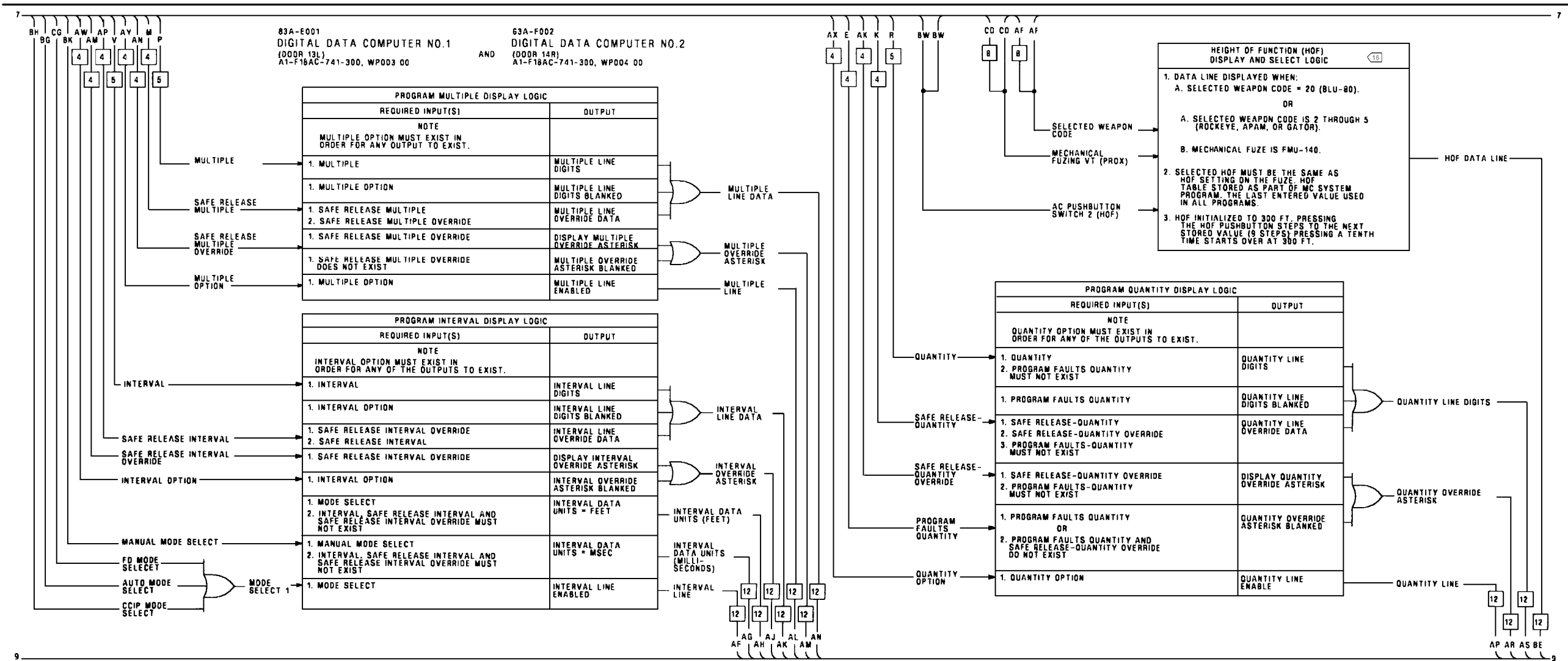


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 10)

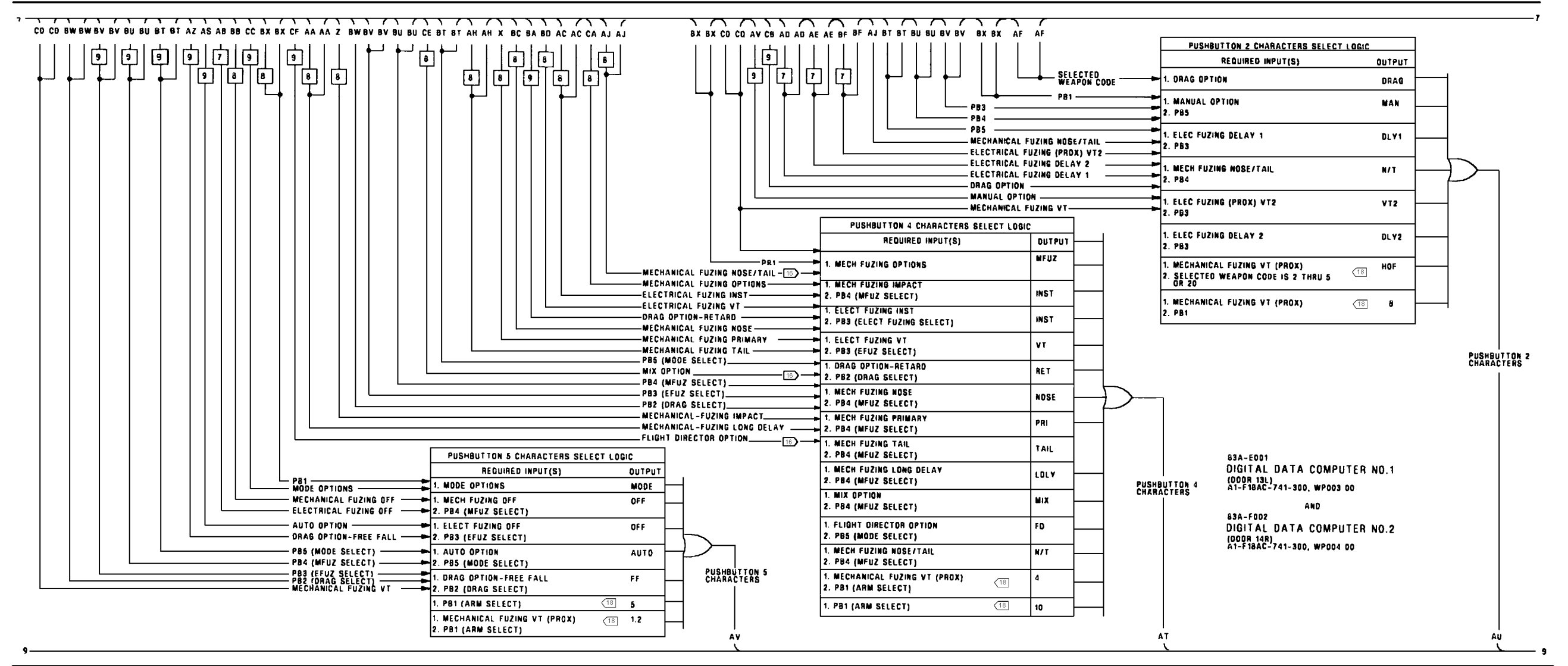


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 11)

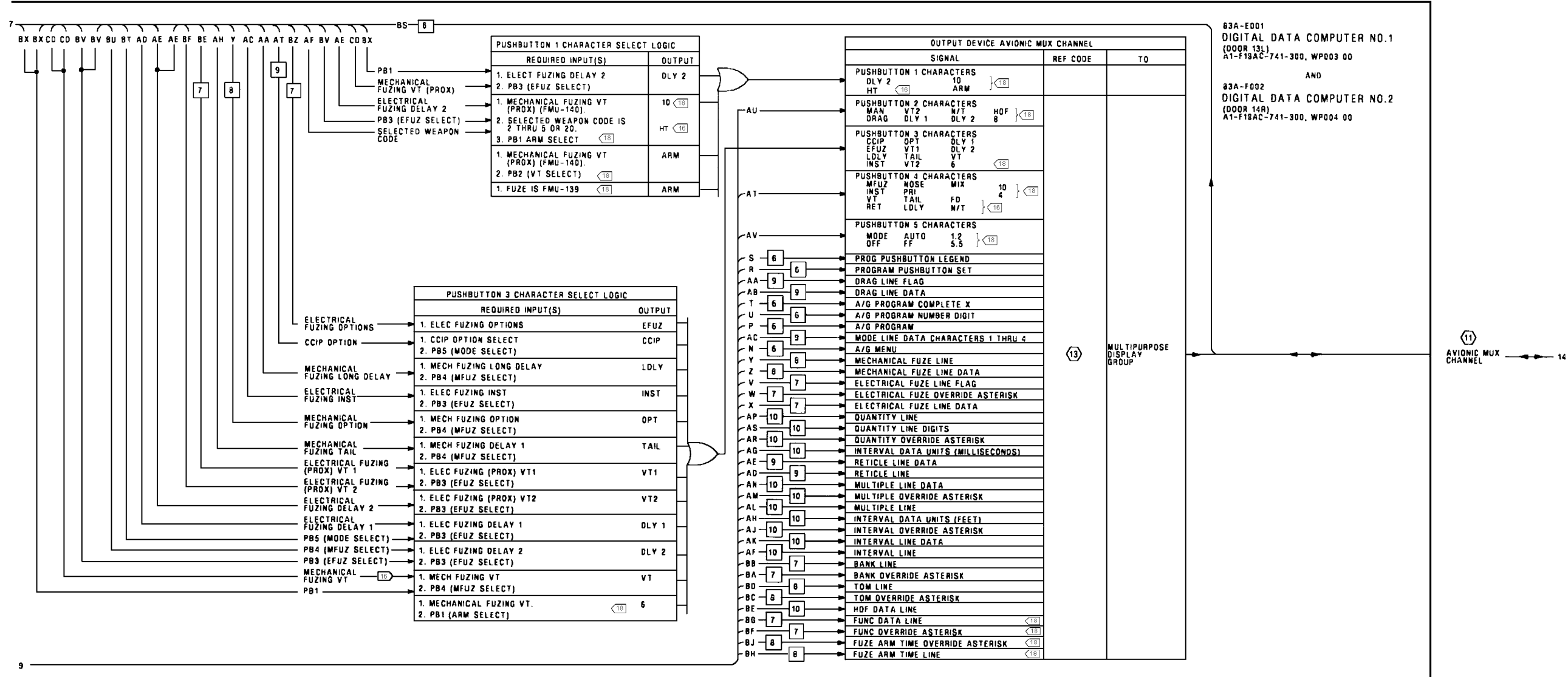


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 12)

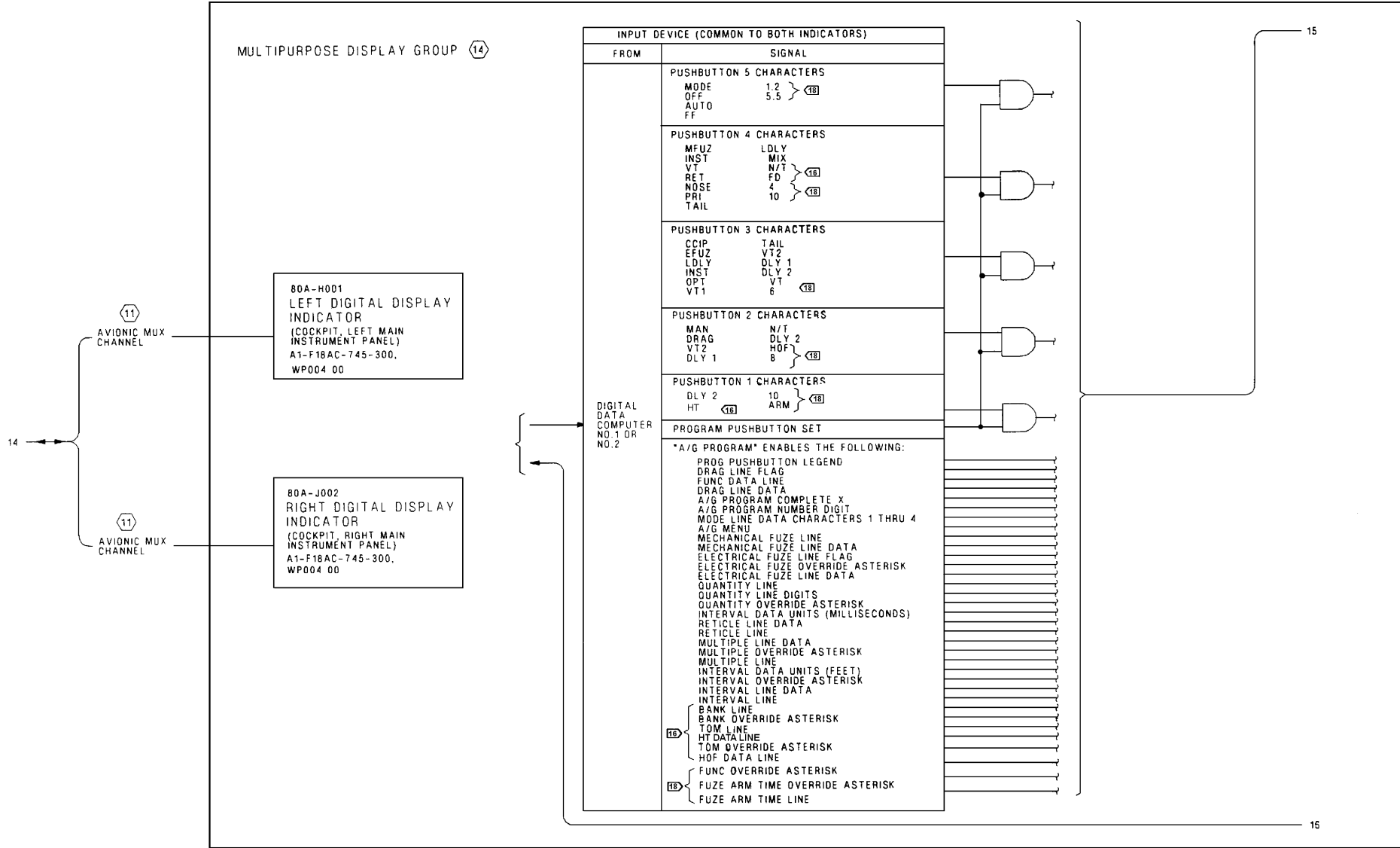
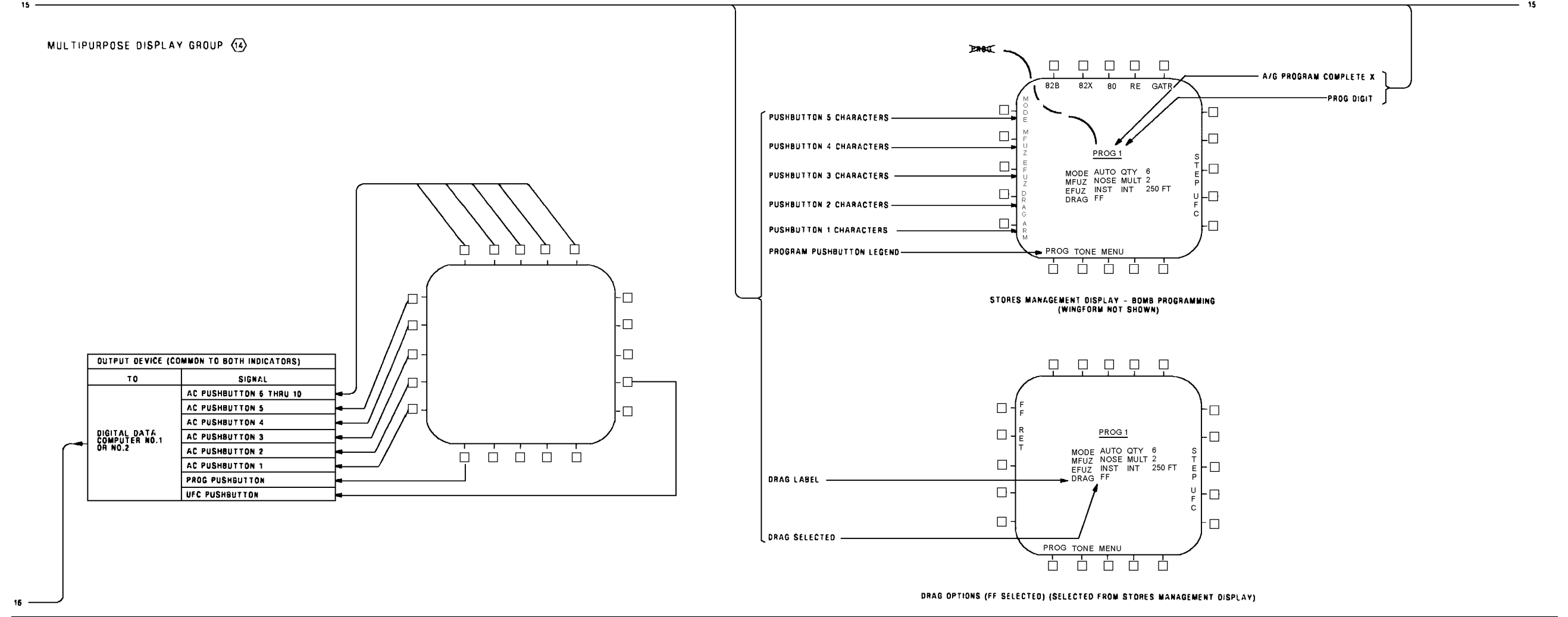


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 13)



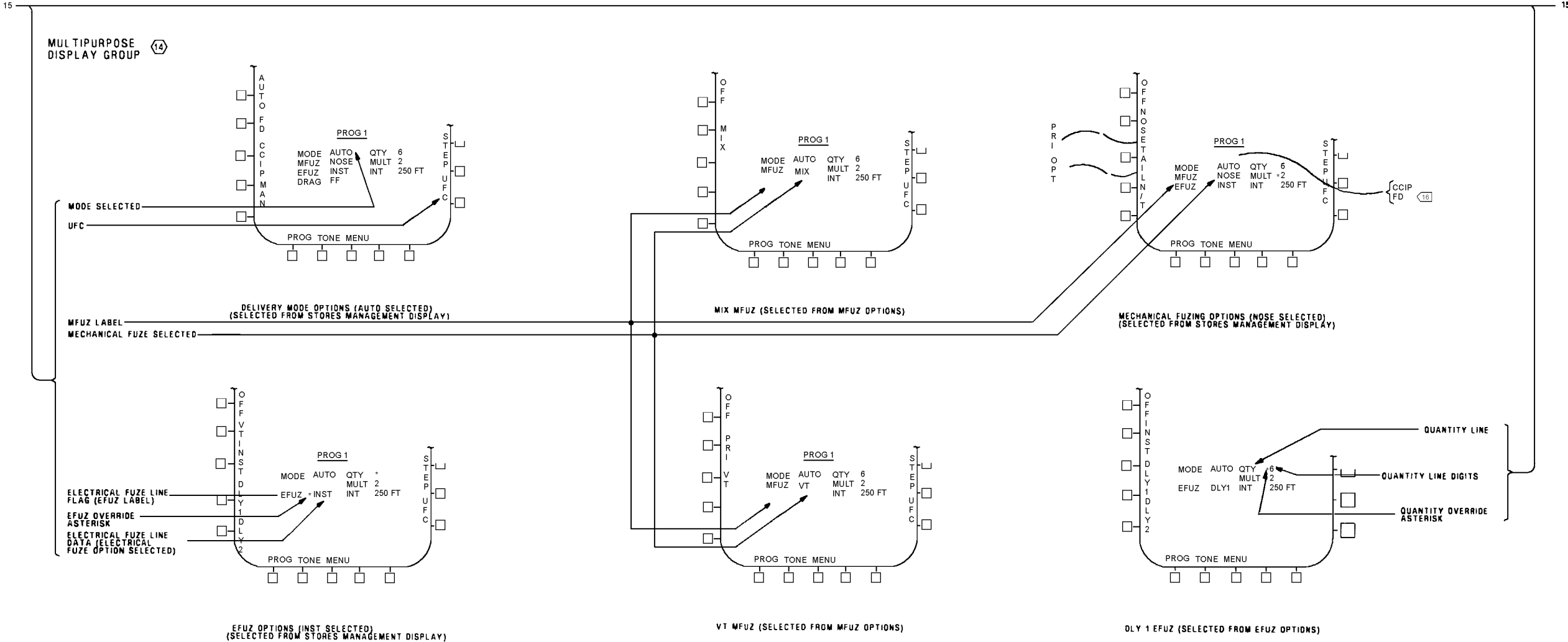


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 15)

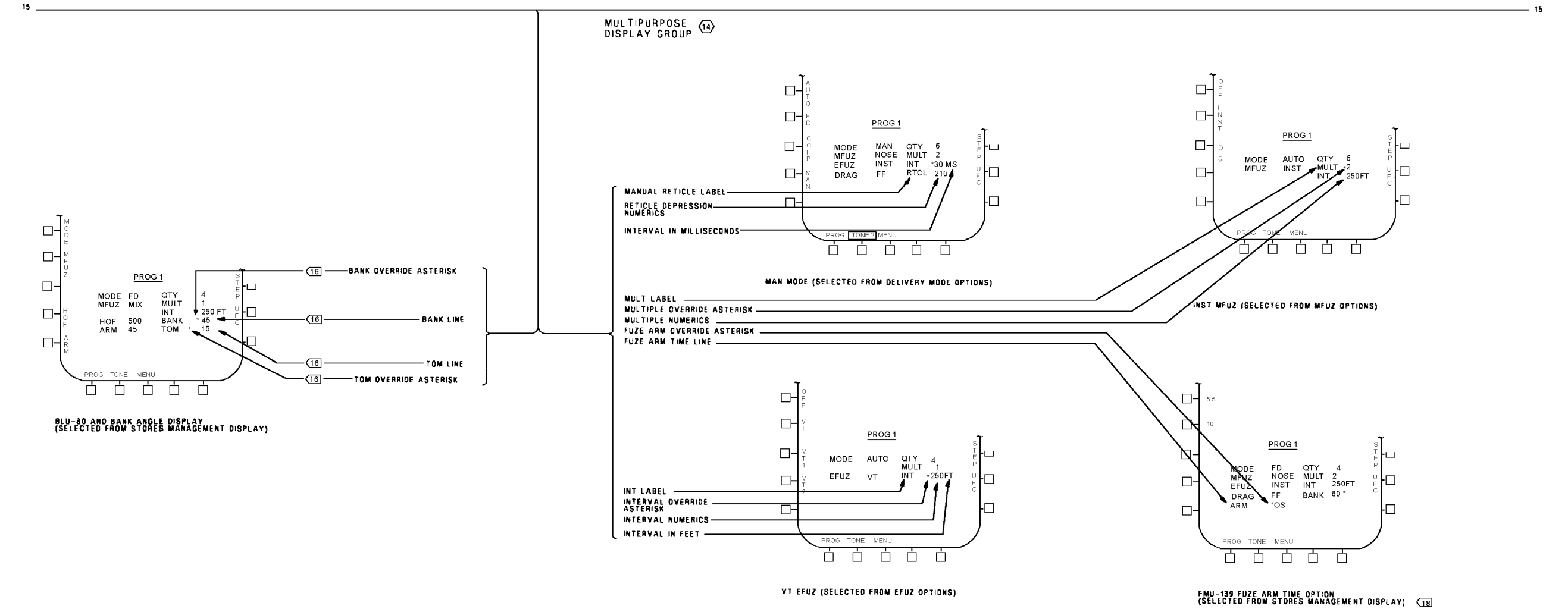


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 16)

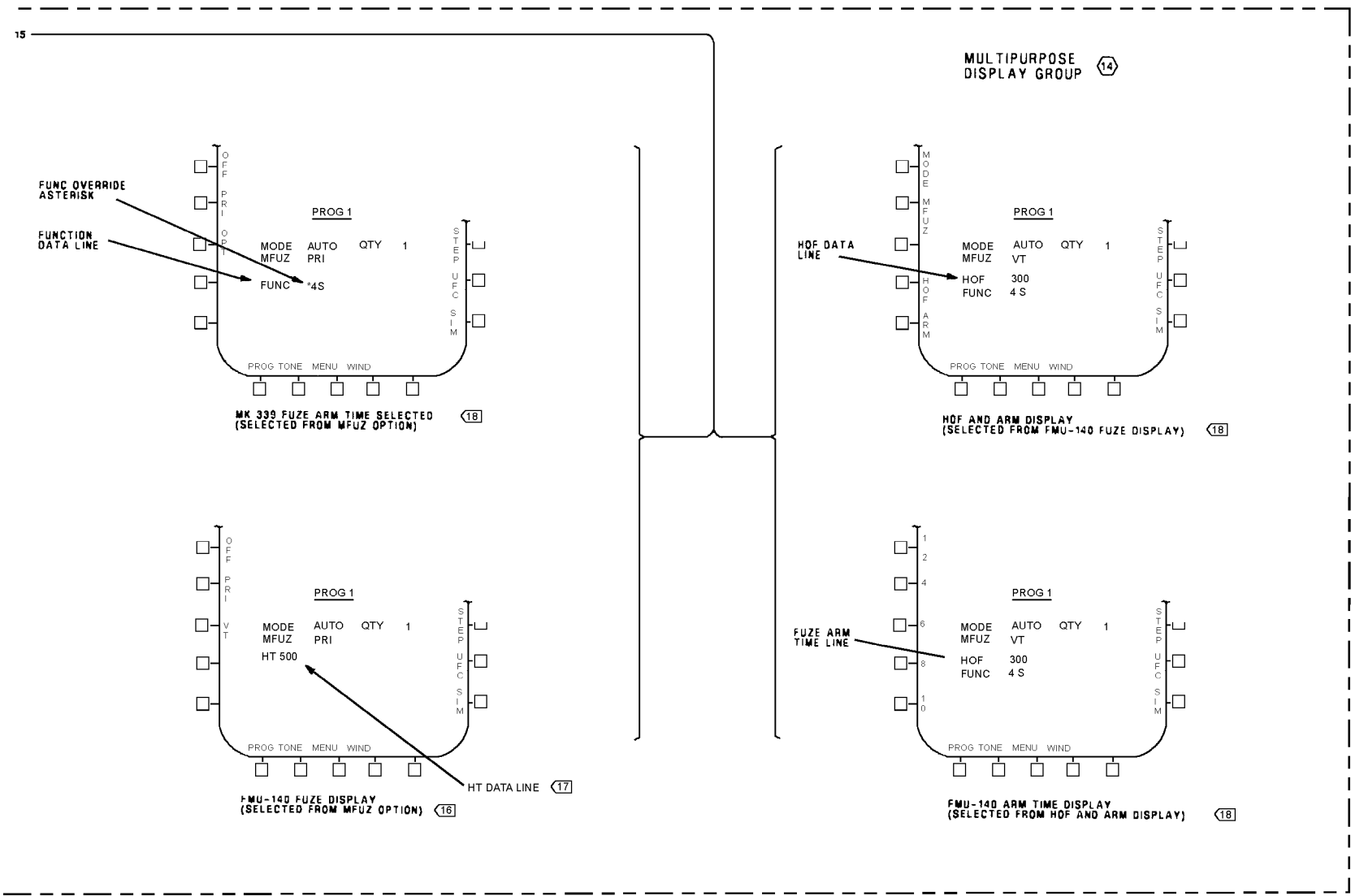


Figure 1.

Figure 1. Bomb/Mine Delivery Program Select Schematic (Sheet 17)

LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST:	
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.	9
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.	10
	C. WHEN TESTING CONTINUITY, TEST FOR:	11
	(1) SHORTS TO GROUND.	12
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	13
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	14
	(4) SHIELD CONTINUITY.	15
3	FUZE TYPES AND ARMAMENT COMPUTER FUZE CODES, WP009 00.	16
4	ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.	17
5	STORES INVENTORY SCHEMATIC, WP015 00.	18
6	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	
7	QUANTITY, MULTIPLE, AND INTERVAL OVERRIDE, WP009 00.	
8	BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.	
		CONVENTIONAL WEAPON FUZE OPTIONS, WP009 00.
		BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.
		SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
		FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
		DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18AC-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.
		IF INDICATOR PUSHBUTTON DOES NOT RESULT IN NORMAL OPERATION TROUBLESHOOT USING, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
		WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A AND UP DIGITAL DATA COMPUTER CONFIG/IDENT 85A AND UP (A1-F18AC-SCM-000).
		162394 THRU 163175 BEFORE F/A-18, AFC 253, OR AFC 292.
		162394 THRU 163175 AFTER F/A-18, AFC 253, OR AFC 292.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

**SCHEMATIC - WEAPON STATION 2, 3, 7, 8 GUIDED WEAPON CONTROL - MONITOR SET
AN/AWW-13**

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. The schematic in this work package shows system functions for the guided weapon control - monitor set when loaded on weapon station 2, 3, 7, 8.
3. The location of the components on this schematic can be seen in WP008 00.

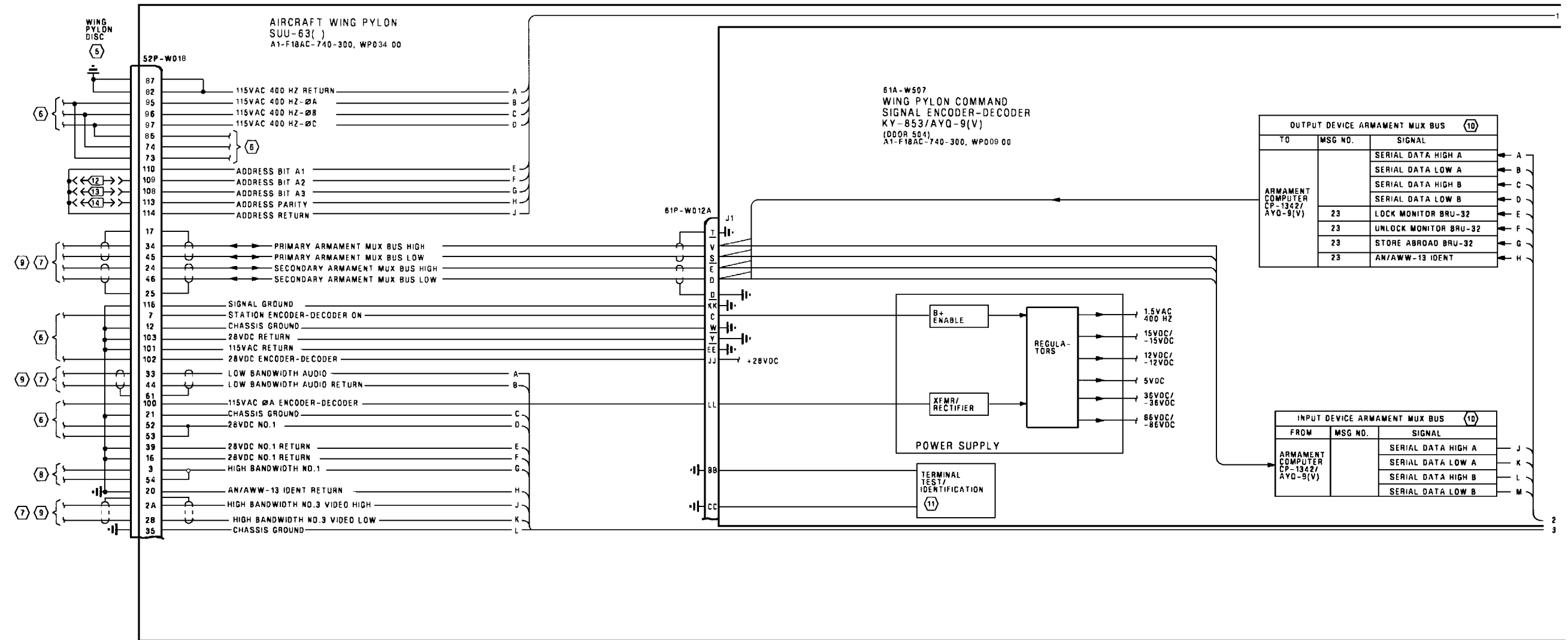


Figure 1.

Figure 1. Weapon Station 2, 3, 7, 8 Guided Weapon Control-Monitor Set AN/AWW-13 Schematic (Sheet 1)



Figure 1.

LEGEND

1.

NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2.

CONTINUITY TEST:

A.

ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A-()-WDM-000.

B.

WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.

C.

WHEN TESTING CONTINUITY, TEST FOR:

(1)

SHORTS TO GROUND.

(2)

SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.

(3)

SHORTS BETWEEN SHIELD AND CONDUCTORS.

(4)

SHIELD CONTINUITY.

3.

LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.

4

LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.

5

PYLON DISCONNECT AND DOOR LOCATIONS:

STATION 2 52J-U062 (DOOR 61L).

STATION 3 52J-U063 (DOOR 60L).

STATION 7 52J-V067 (DOOR 60R).

STATION 8 52J-V068 (DOOR 61R).

6

APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC:

WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.

WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.

WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.

WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.

7

GUIDED WEAPON CONTROL-MONITOR SET AN/AWW-13 AVIONIC INTERFACE SCHEMATIC, WP068 00.

8

IR/VIDEO PROCESSING AND DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-744-500, WP007 00.

9

ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.

10

ARMAMENT MUX BUS DATA, WP010 00.

11

BUILT-IN TEST SCHEMATIC, WP024 00.

12

STATION 3 - 52J-U063 AND STATION 7 - 52J-V067.

13

STATION 7 - 52J-V067 AND STATION 8 - 52J-V068.

14

STATION 3 - 52J-U063 AND STATION 8 - 52J-V068.
- Figure 1.
- Figure 1. Weapon Station 2, 3, 7, 8 Guided Weapon Control-Monitor Set AN/AWW-13 Schematic (Sheet 3)
- Figure 1.

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - WEAPON STATION 5 GUIDED WEAPON CONTROL - MONITOR SET AN/AWW-13****STORES MANAGEMENT SYSTEM****EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292**

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The schematic in this work package shows system functions for the guided weapon control - monitor set when loaded on weapon stations 5.

3. Component locations are shown in WP008 00.

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.
- ④ GUIDED WEAPON CONTROL-MONITOR SET AN/AWW-13 AVIONIC INTERFACE SCHEMATIC, WP068 00
- ⑤ WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00.
- ⑥ ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
- ⑦ LAUNCHER/RACK LOCK/UNLOCK SCHEMATIC, WP020 00.
- ⑧ ARMAMENT MUX BUS DATA, WP010 00.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - GUIDED WEAPON CONTROL - MONITOR SET AN/AWW-13 AVIONIC INTERFACE

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
2. This work package shows the stores management system interface functions with related aircraft systems for Guided Weapon Control - Monitor Set
- AN/AWW-13 (DL 13 Pod). The schematic supplements weapon station 2, 3, 5, 7 and 8 DL 13 Pod schematics.
3. Component locations are shown in WP008 00.



Figure 1.

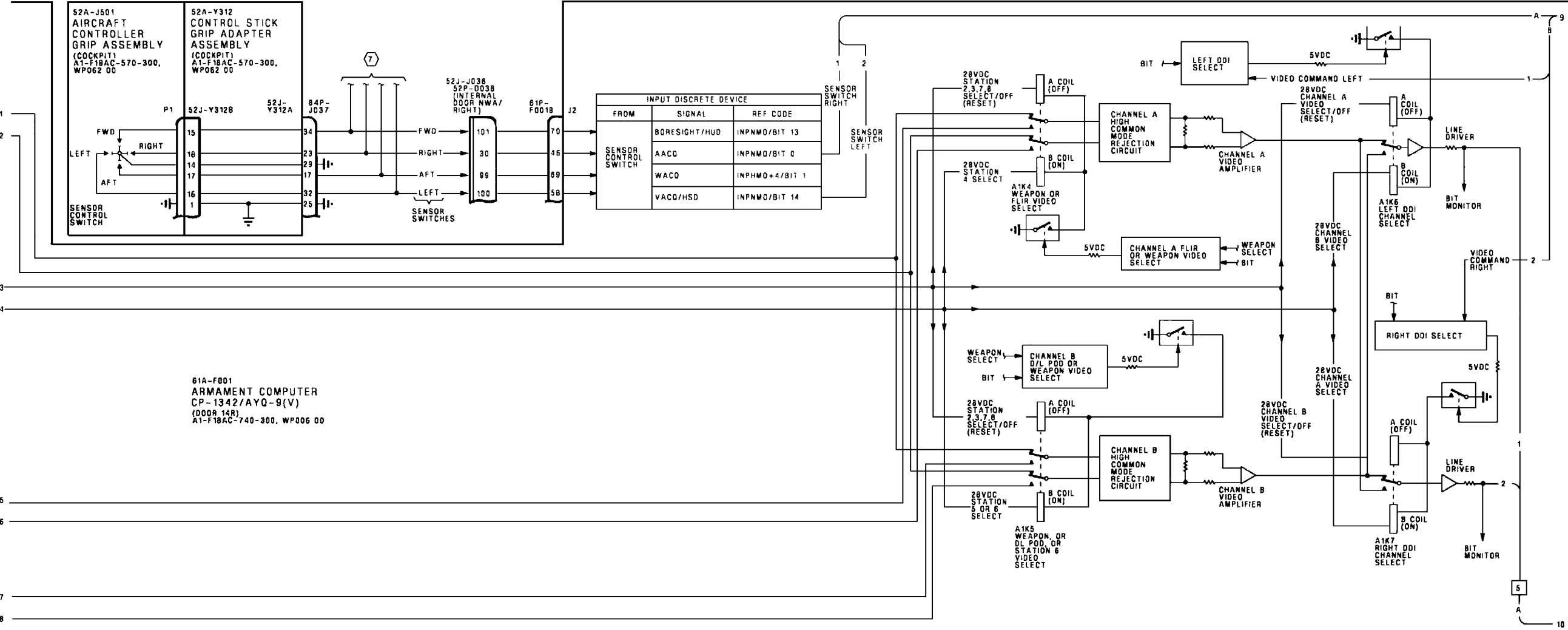


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 2)

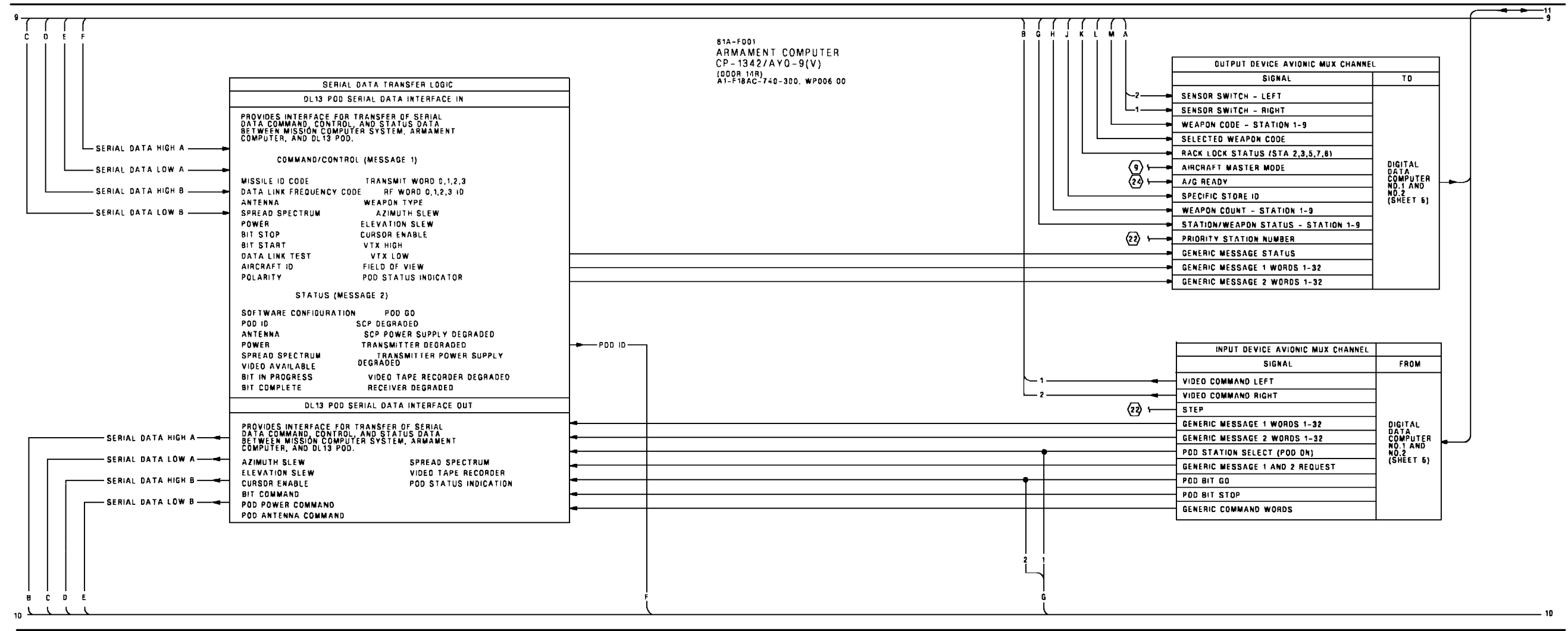


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 3)

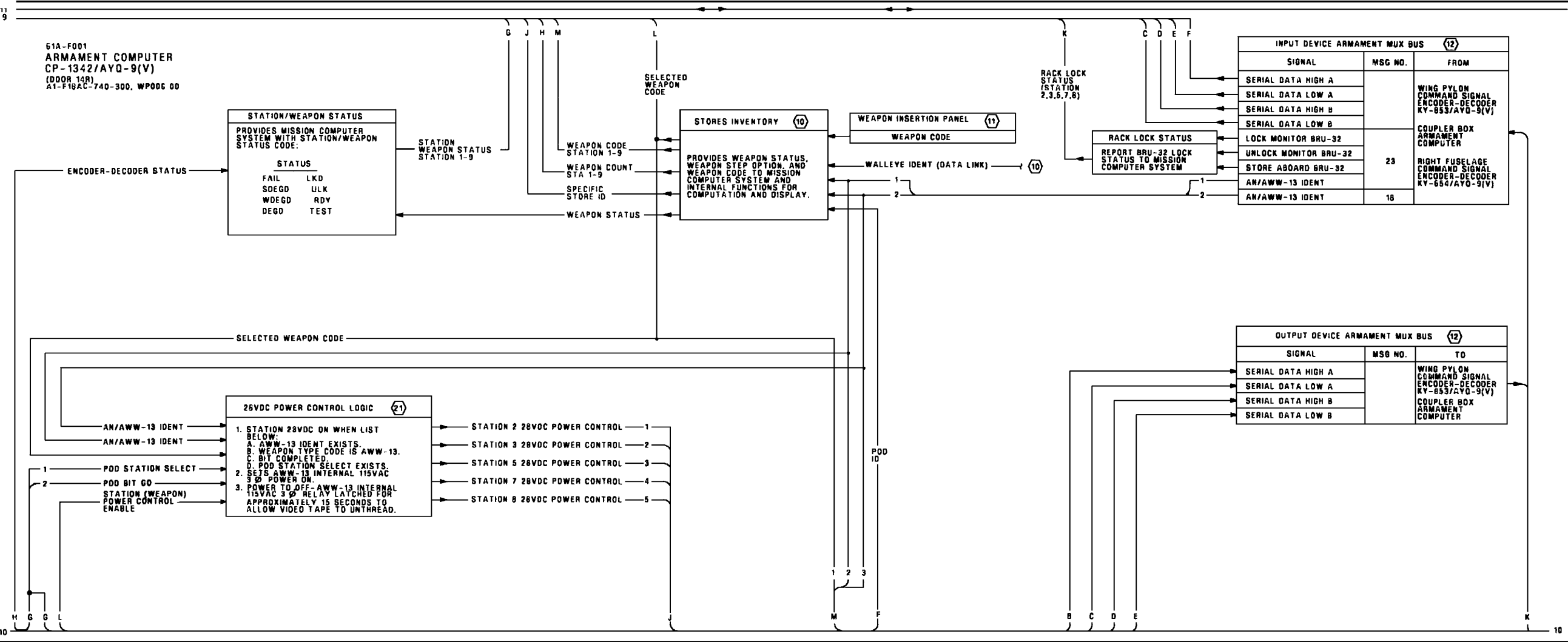


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 4)

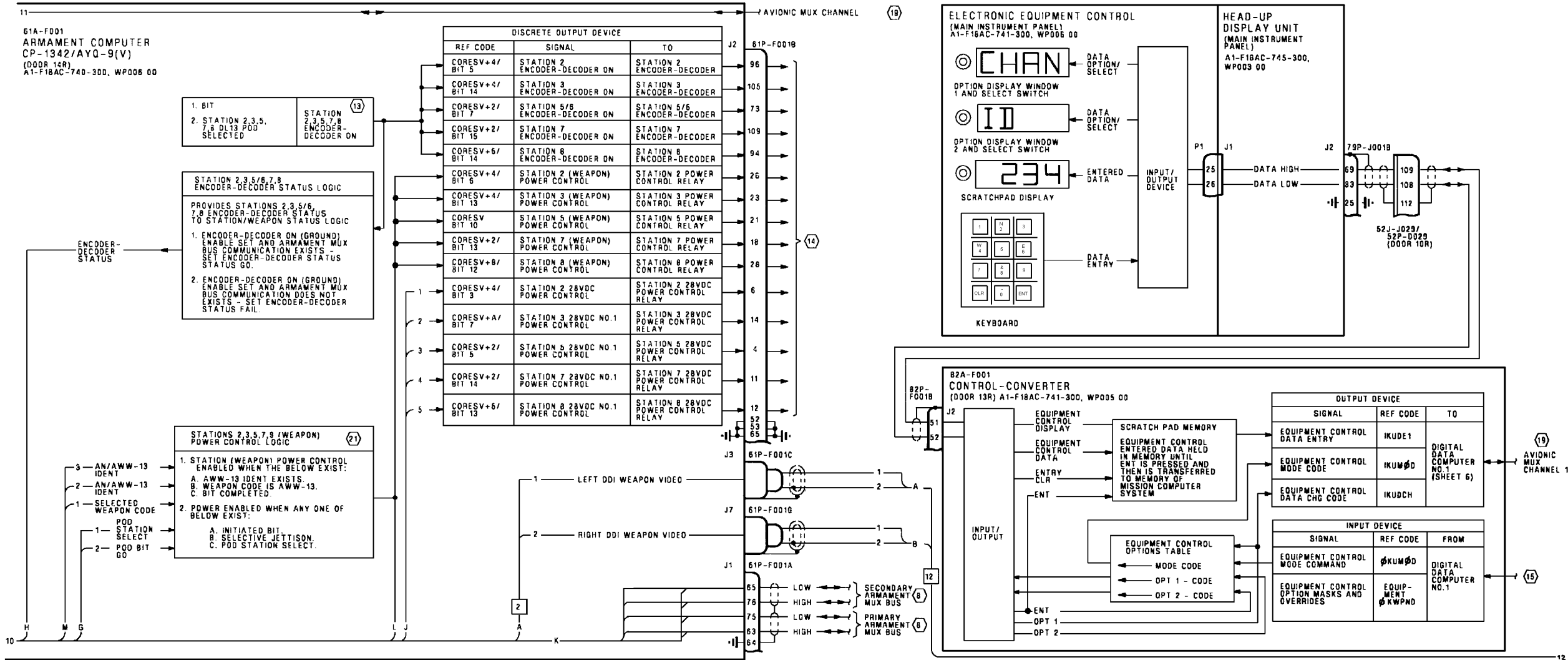


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 5)

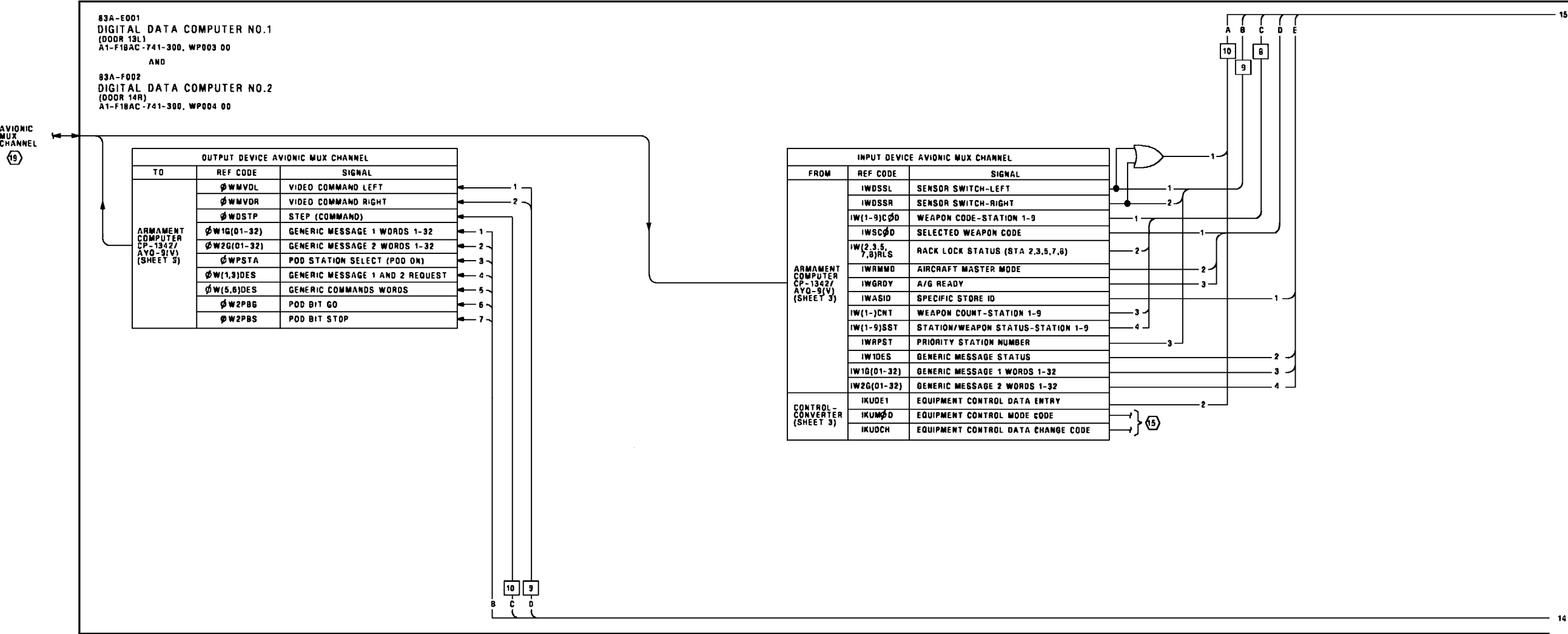


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 6)

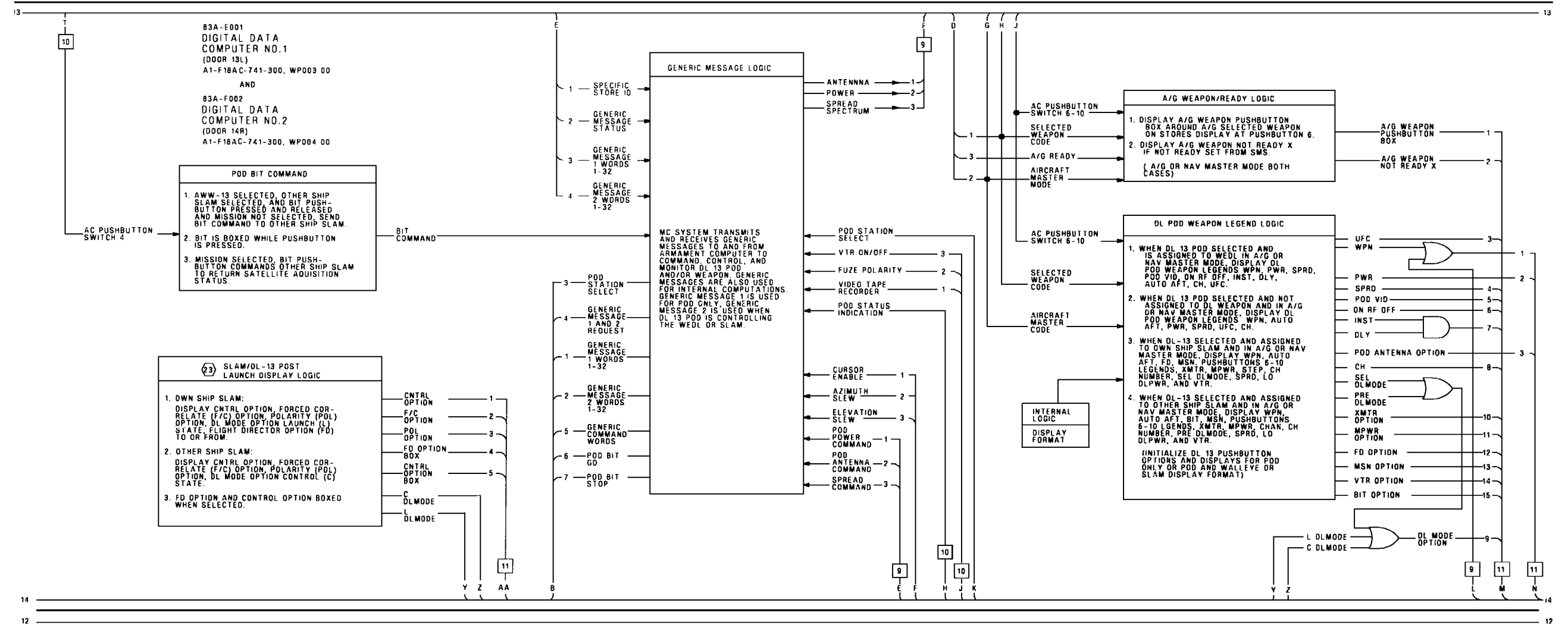


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 7)

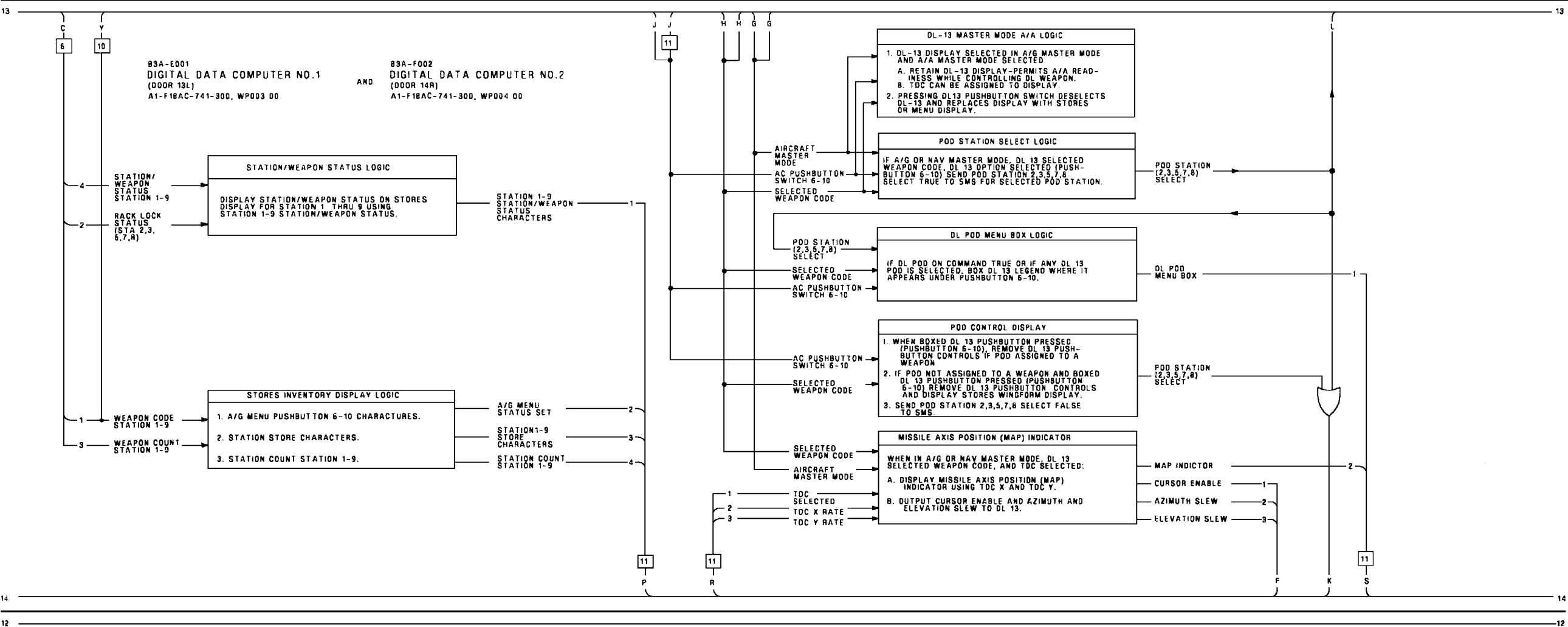


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 8)



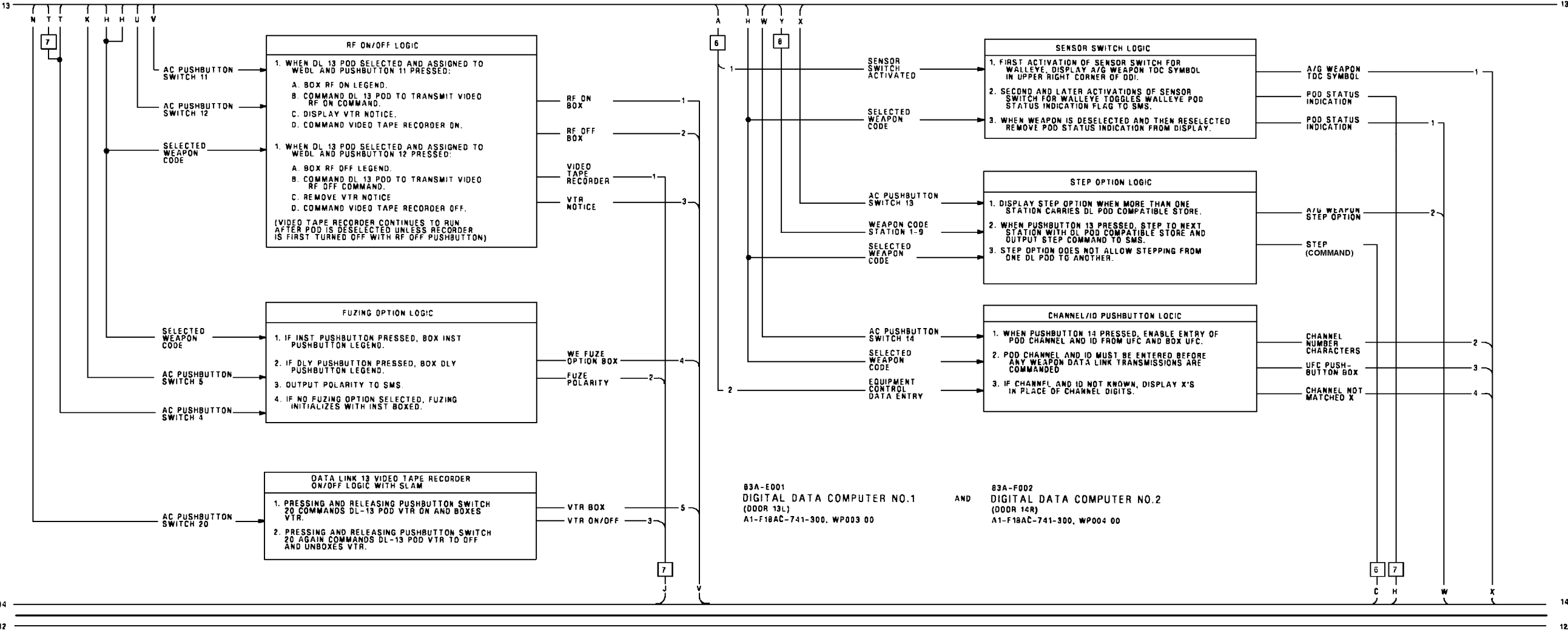


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 10)

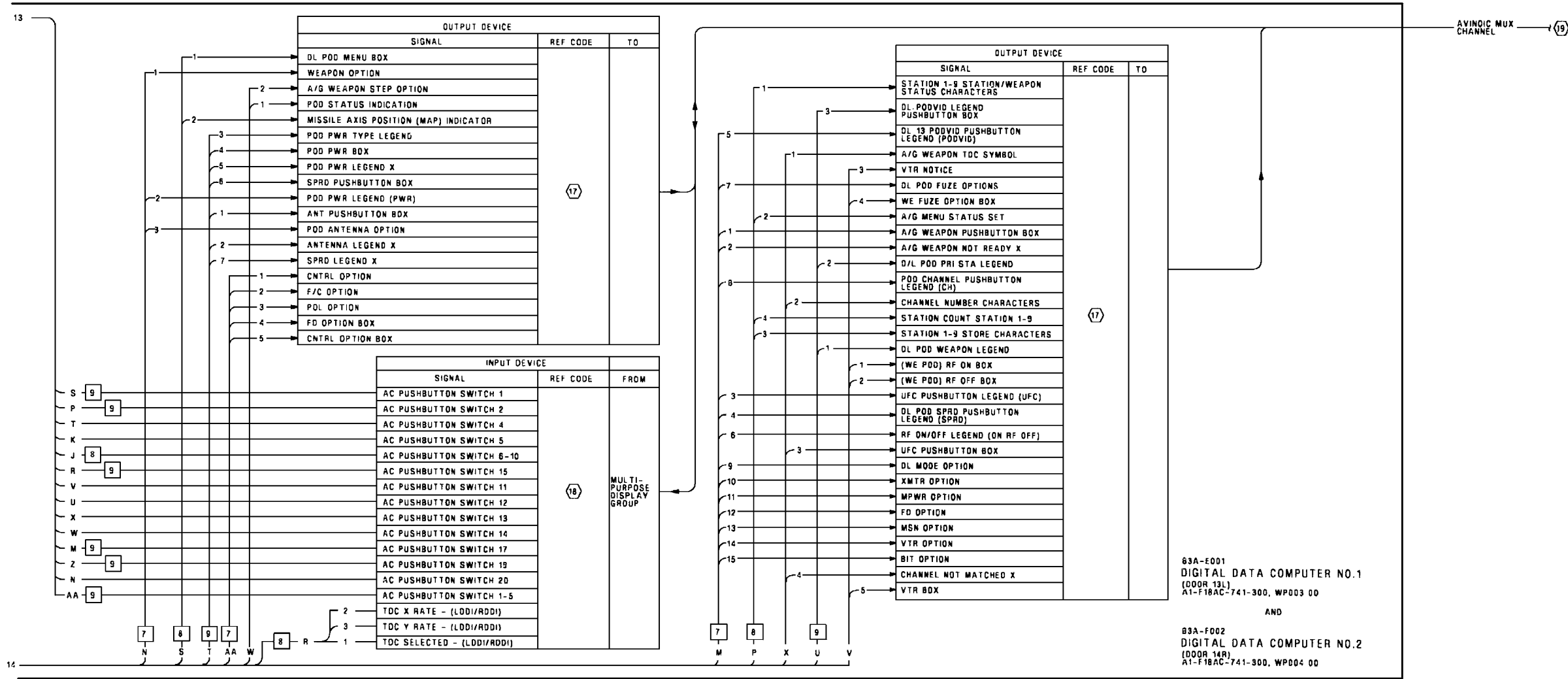


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 11)

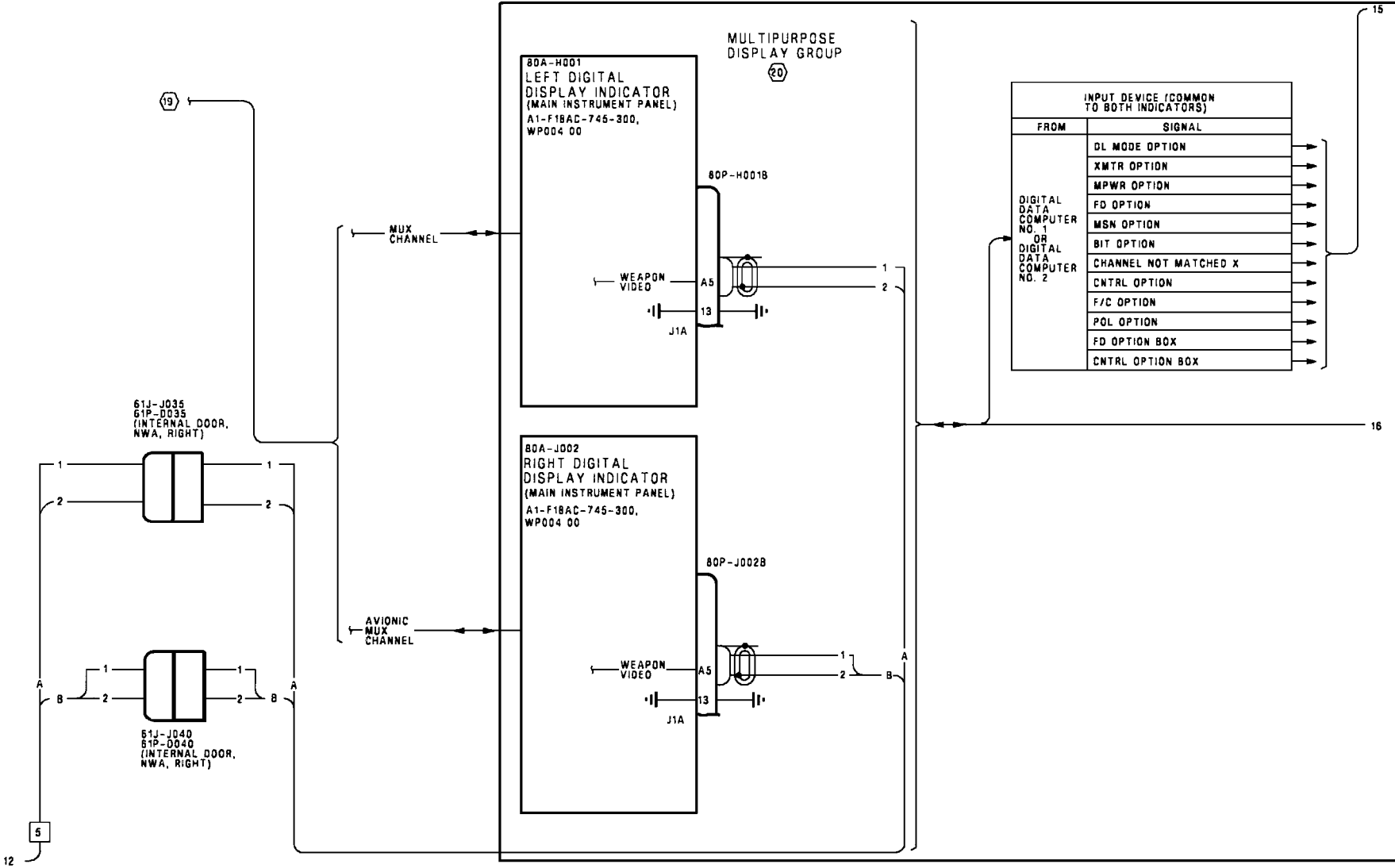


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 12)

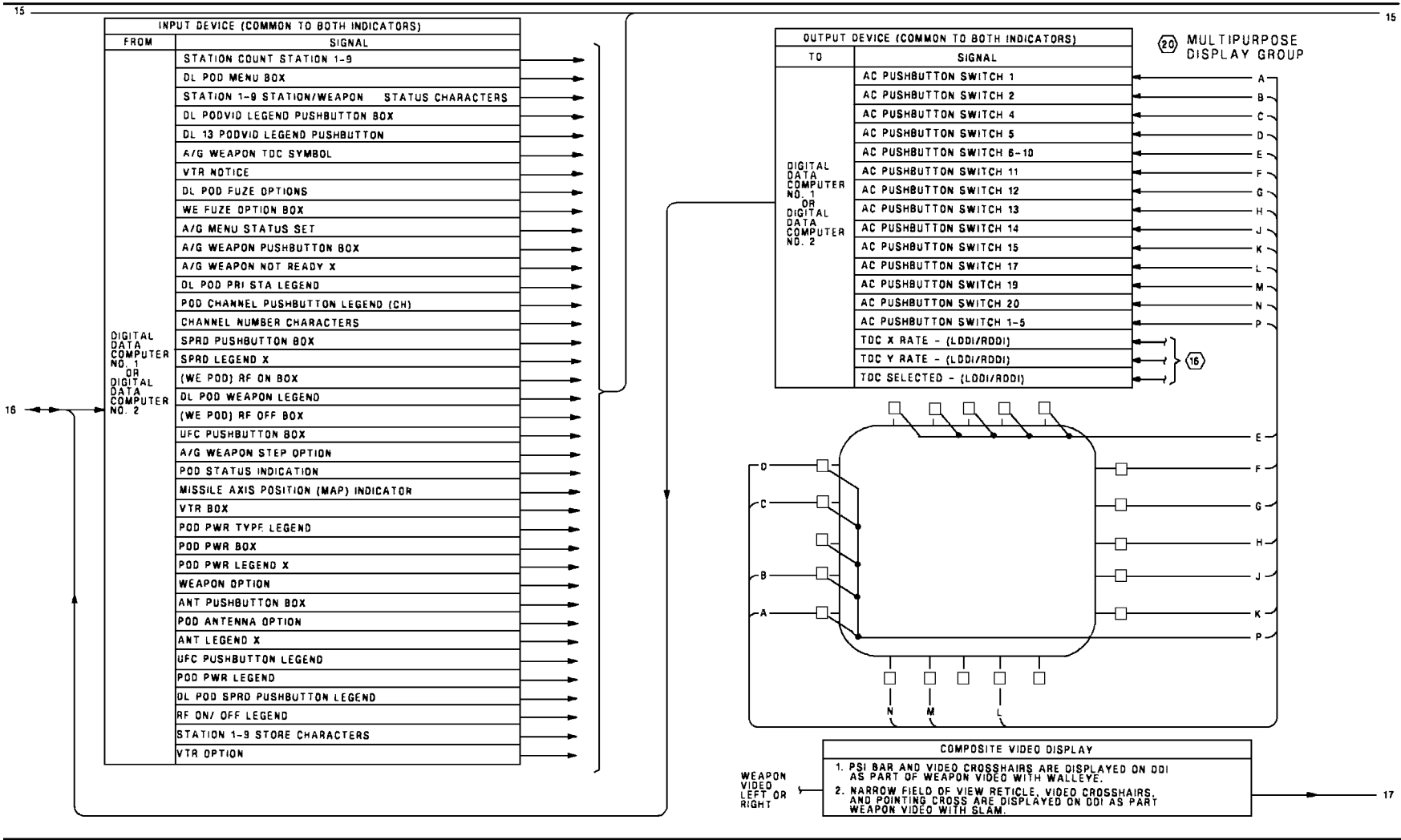


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 13)



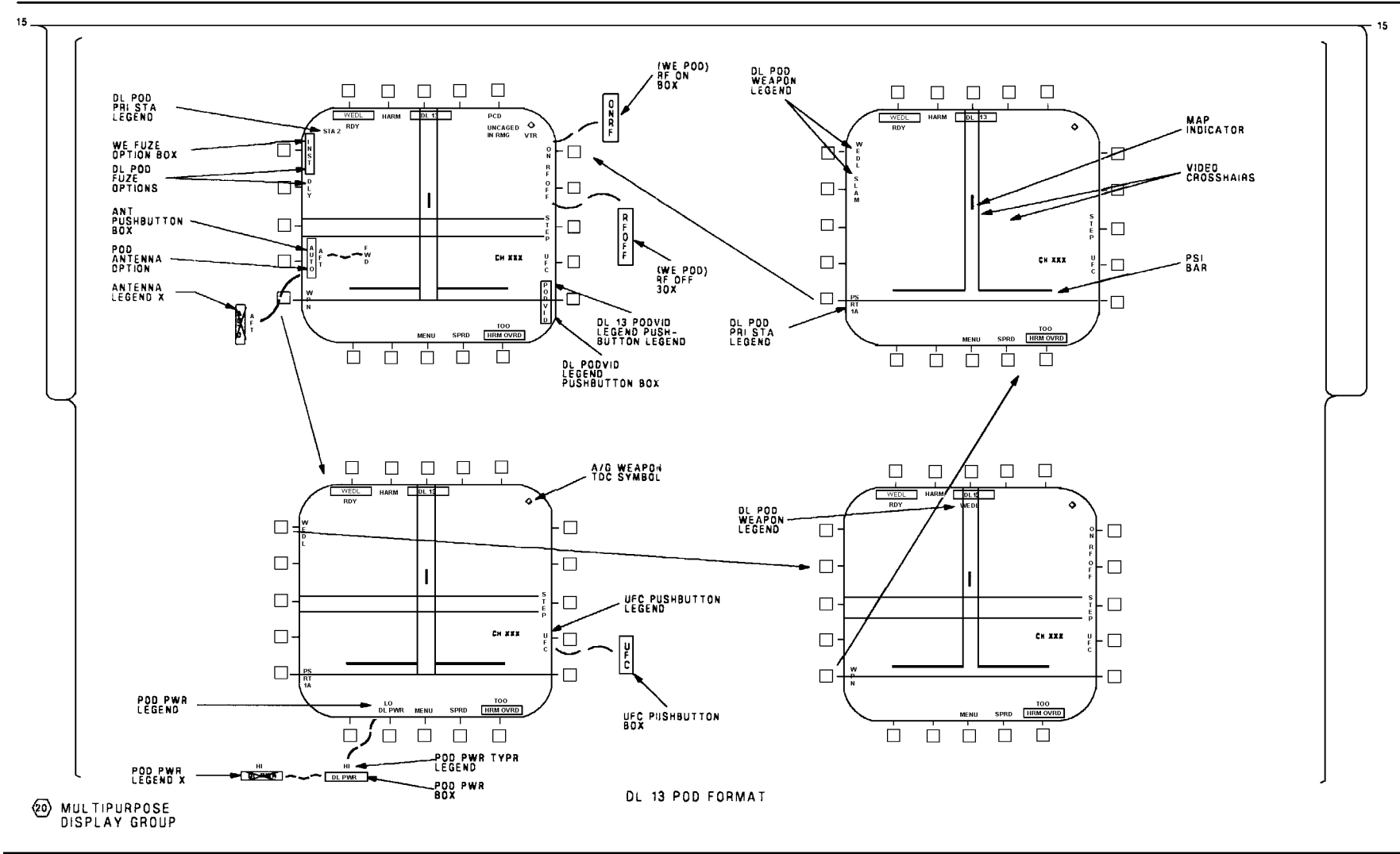


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 15)

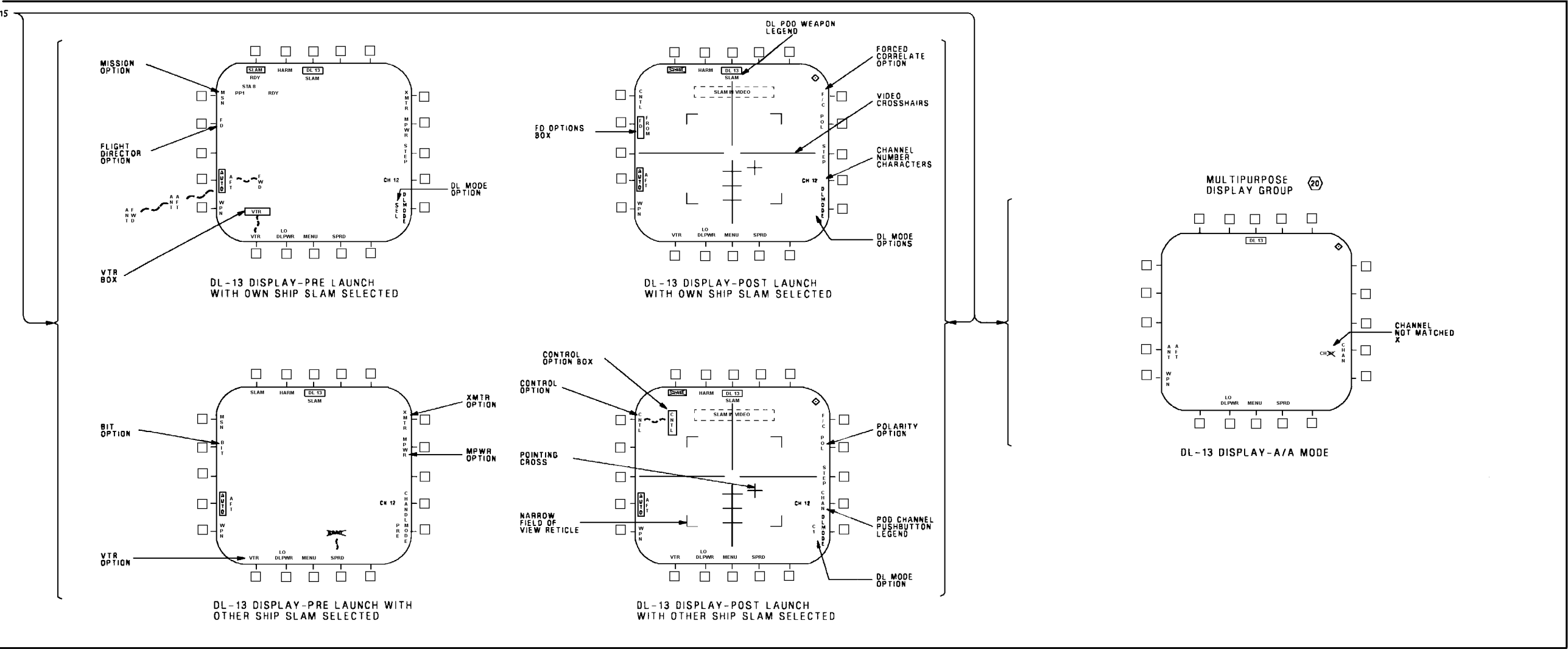


Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 16)

LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST:	
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A(-)-WDM-000.	13
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	14
	C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE.	
	D. WHEN TESTING CONTINUITY, TEST FOR:	15
	(1) SHORTS TO GROUND.	
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	16
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	
	(4) SHIELD CONTINUITY.	17
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	
4.	ABBREVIATIONS: SEE WP002 01.	
5	WEAPON STATIONS 2, 3, 7, 8 GUIDED WEAPON CONTROL-MONITOR SET AN/AWW-13 SCHEMATIC, WP066 00.	
6	WEAPON STATION 5 GUIDED WEAPON CONTROL-MONITOR SET AN/AWW-13 SCHEMATIC, WP067 00.	18
7	SEE APPLICABLE RADAR SYSTEM INTERCONNECT SCHEMATIC, A1-F18AC-742-500, WP005 00 OR A1-F18AH-742-500, WP005 00.	19
8	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	20
9	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	21
10	STORES INVENTORY SCHEMATIC, WP015 00.	22
11	ARMAMENT COMPUTER WEAPON INSERATION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.	23
12	ARMAMENT MUX BUS DATA, WP010 00.	24
	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.	
	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.	
	CONTROL CONVERTER BUILT-IN TEST SCHEMATIC, A1-F18AC-741-500, WP010 00.	
	SENSOR CONTROL SWITCH AND TARGET DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.	
	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18A(-)-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	
	REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON ACTION DOES NOT RESULT IN NORMAL OPERATION, TROUBLESHOOT BY DOING DISPLAYS TEST: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).	
	APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	
	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-200, WP004 00.	
	WEAPON STATION POWER CONTROL INTERFACE SCHEMATIC, WP035 00.	
	WEAPON SELECT SCHEMATIC, WP016 00.	
	AGM-84 SLAM AVIONIC INTERFACE SCHEMATIC, WP054 00.	
	APPLICABLE DATA LINK WEAPON AVIONIC INTERFACE SCHEMATIC: AGM-84 SLAM AVIONIC INTERFACE SCHEMATIC, WP054 00.	

Figure 1.

Figure 1. Guided Weapon Control-Monitor Set AN/AWW-13 Avionic Interface Schematic (Sheet 17)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 ROCKET

STORES MANAGEMENT SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION

2. The schematic in this work package shows the rocket weapon functions when loaded on weapon station 2, 3, 7, or 8.

3. The location of the components on this schematic can be seen in WP008 00.



Figure 1.

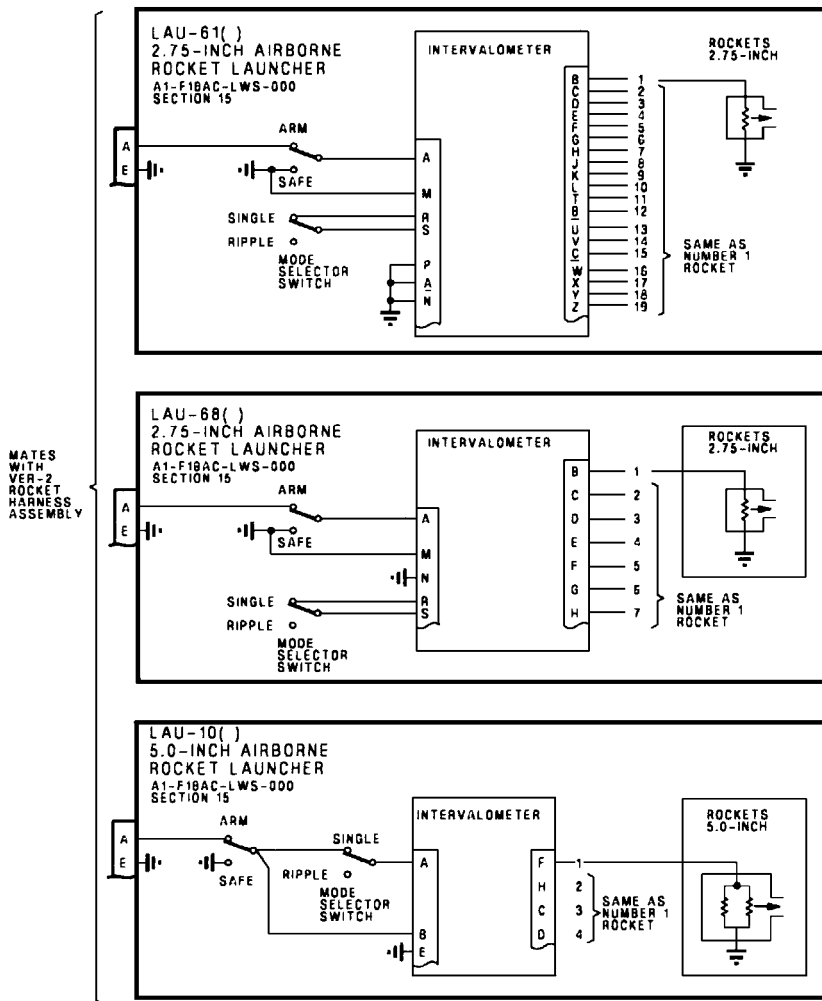


Figure 1. Weapon Station 2, 3, 7, 8 Rocket Schematic (Sheet 2)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER PIN LETTER.

④ PYLON DISCONNECT CONNECTOR AND DOOR LOCATION.
STATION 2 - 52J-U062 (DOOR 61L)
STATION 3 - 52J-U063 (DOOR 60L)
STATION 7 - 52J-V067 (DOOR 60R)
STATION 8 - 52J-V068 (DOOR 61R)

⑤ ROCKET AVIONIC INTERFACE SCHEMATIC, WP071 00.

⑥ APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC:
WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00.
WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00.
WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00.
WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.

⑦ ARMAMENT MUX BUS DATA, WP010 00.

⑧ AIRCRAFT BOMB EJECTOR RACK BRU-33(), WP062 00.

Figure 1. Weapon Station 2, 3, 7, 8 Rocket Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - WEAPON STATION 2, 3, 7, 8 ROCKET

STORES MANAGEMENT SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 211	-	AN/APG-65, Replacement With AN/APG-73 (ECP-MDA-F/A-18 00508)	1 Jul 95	ECP Coverage Only
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. **INTRODUCTION.**

2. The schematic in this work package shows the aircraft system functions for rockets. This schematic
- supplements Weapon Station 2, 3, 7, 8 Rocket Schematic (WP070 00).

3. The location of the components on this schematic can be seen in WP008 00.

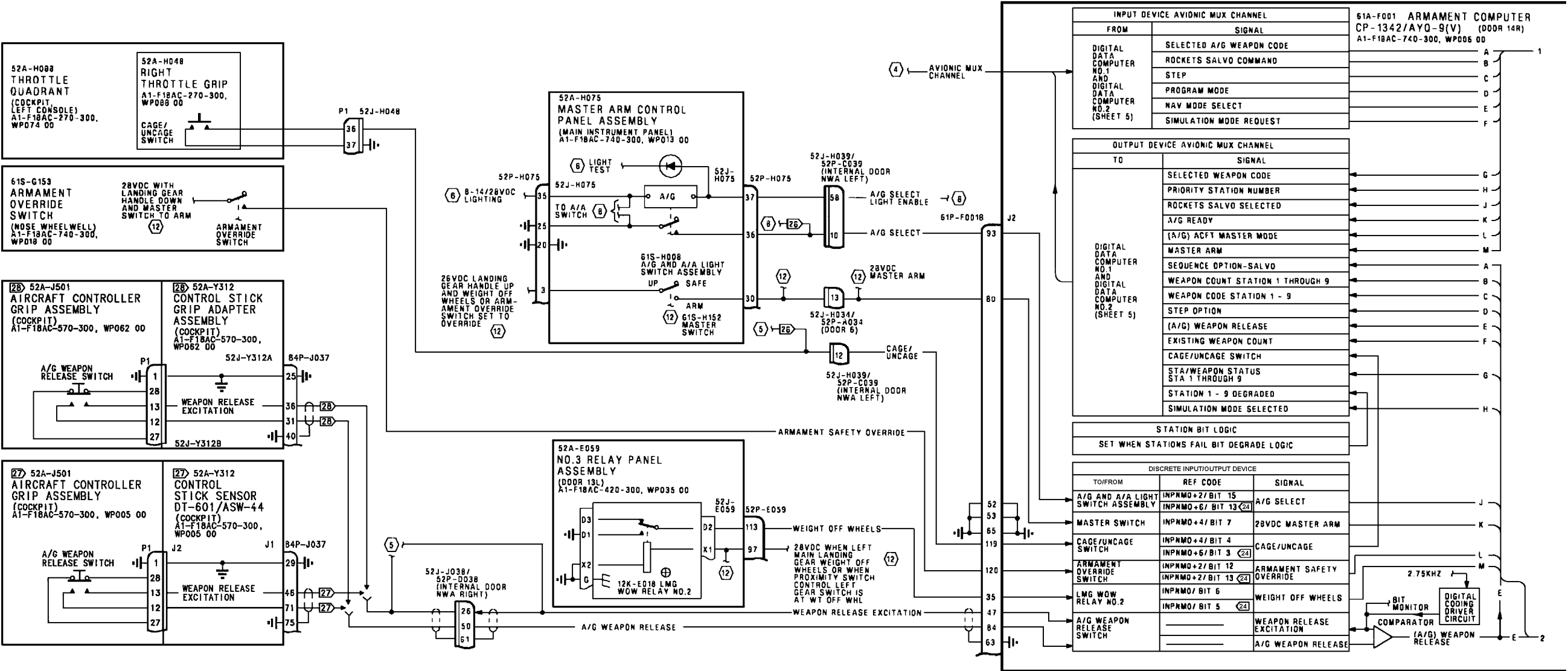


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 1)

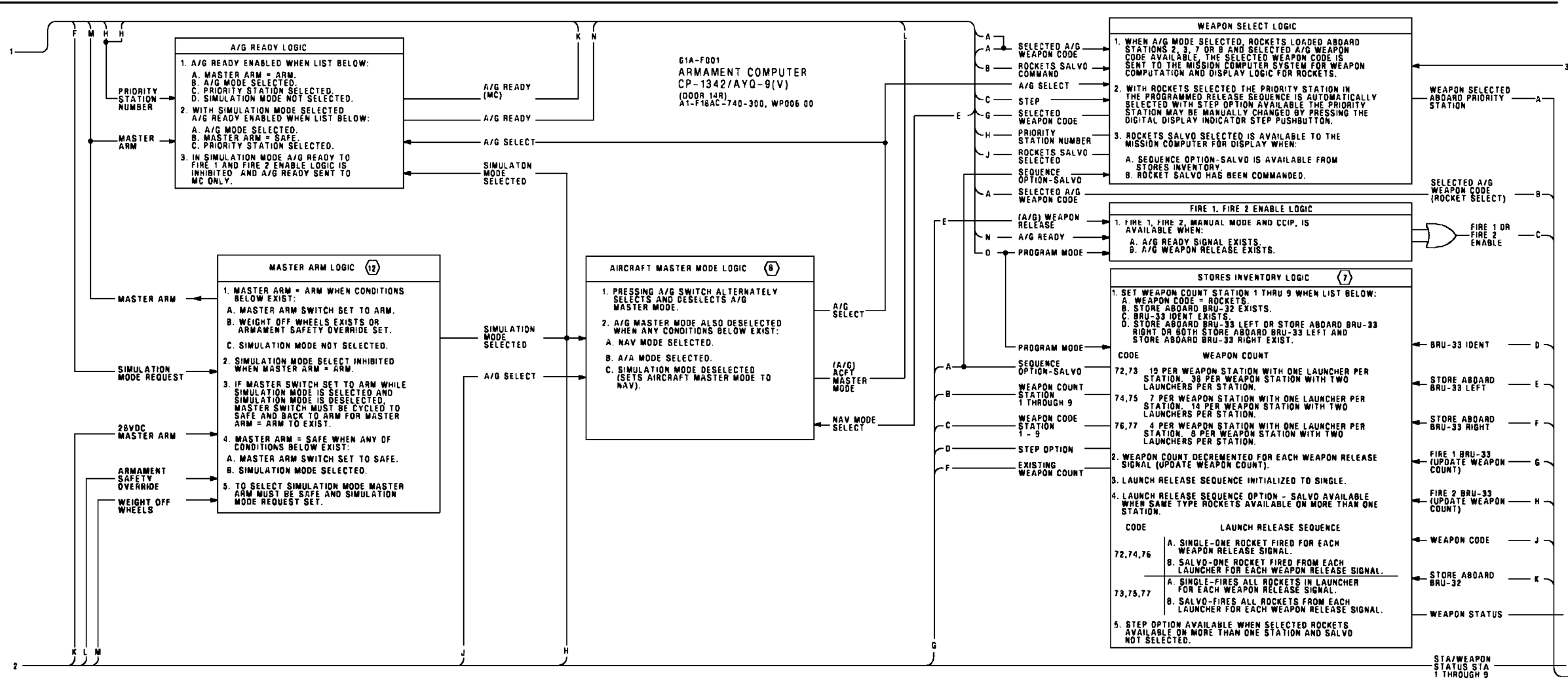


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 2)

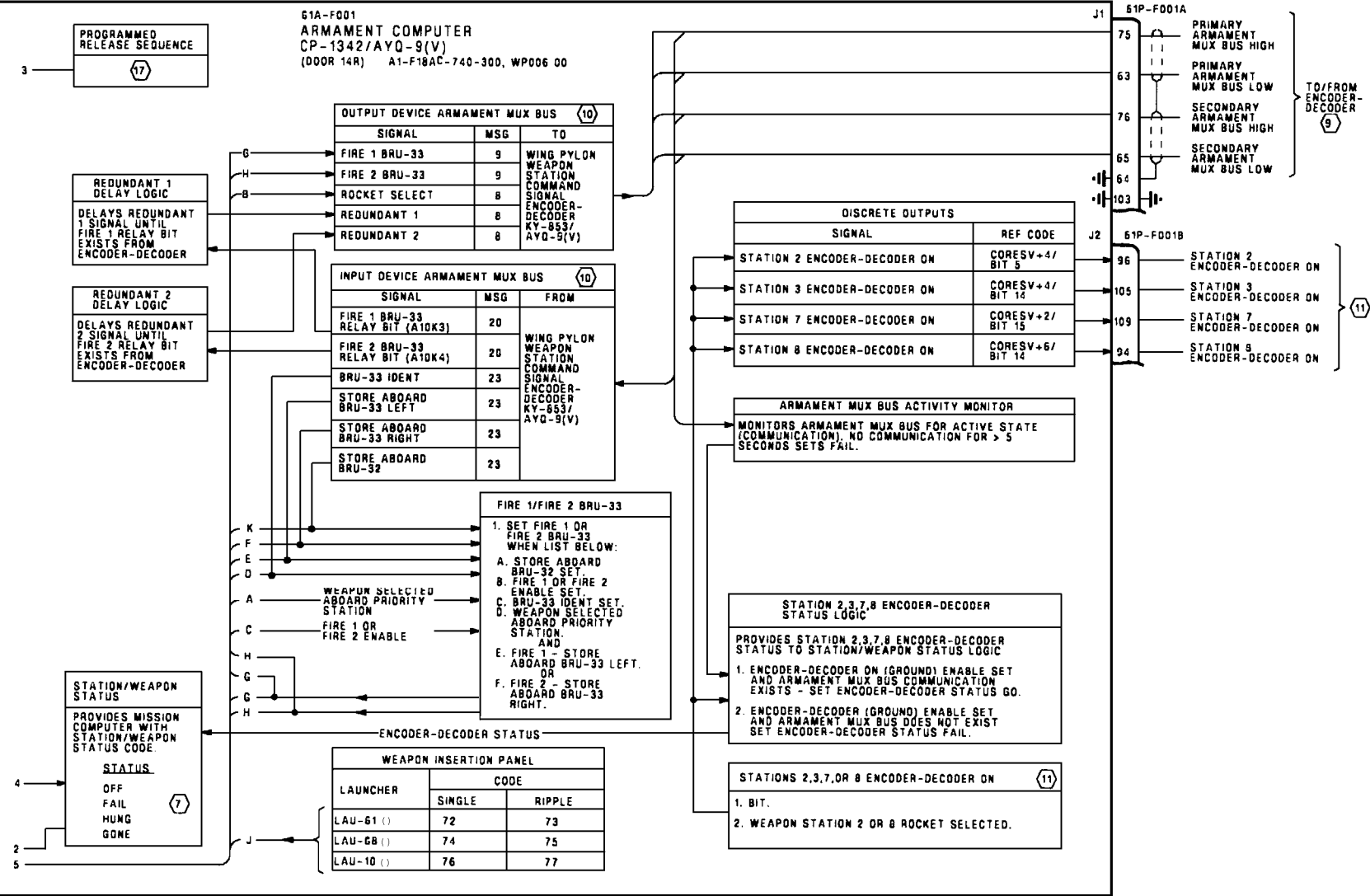


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 3)

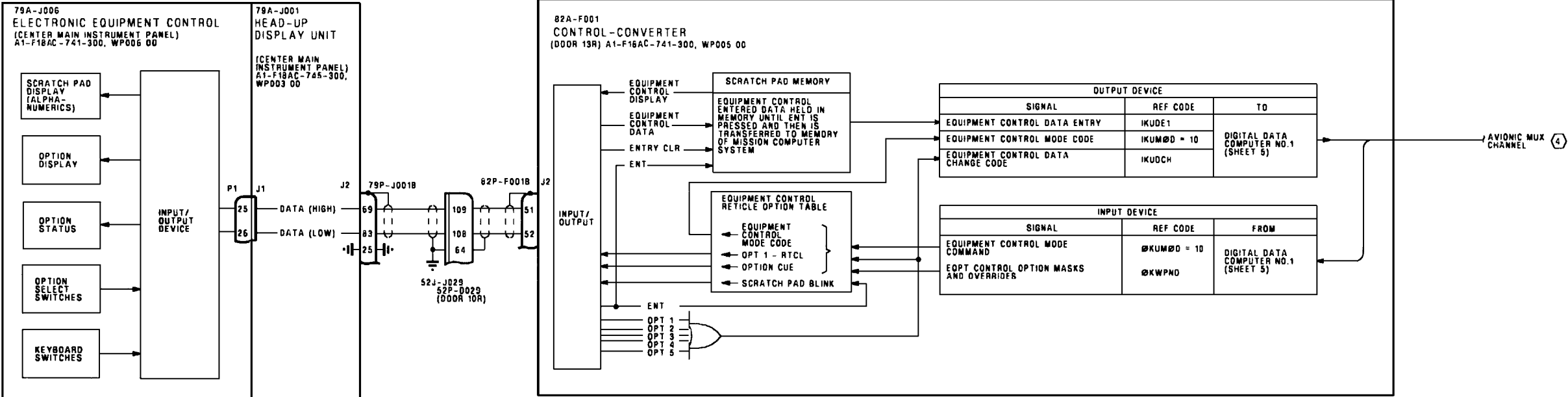
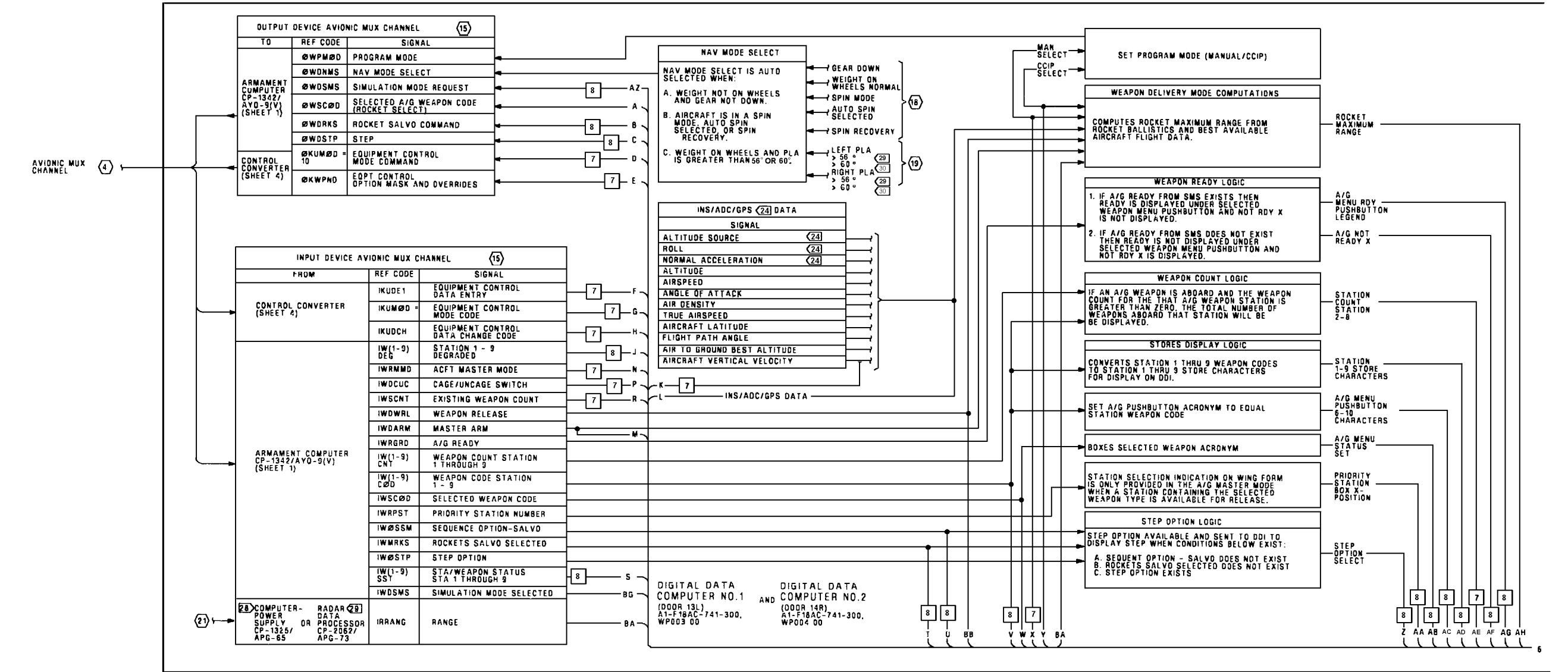


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 4)



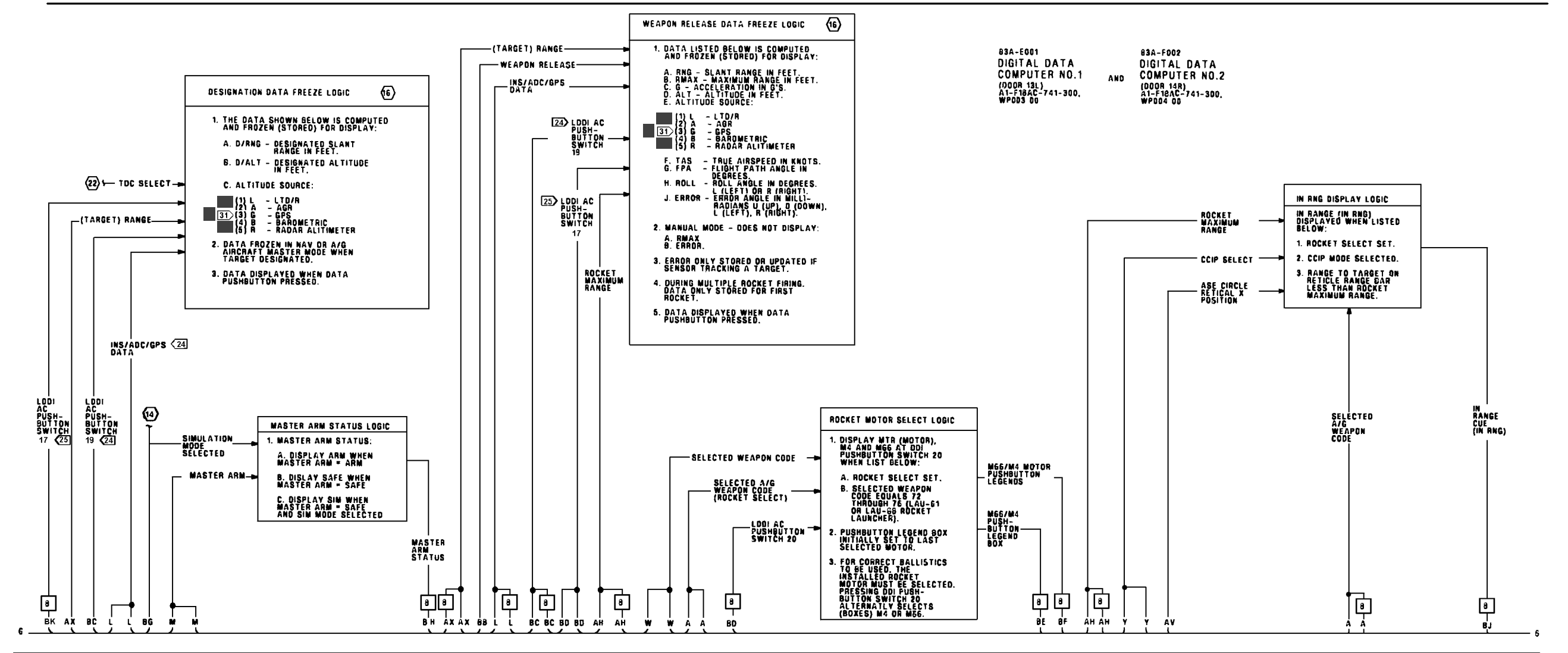


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 6)

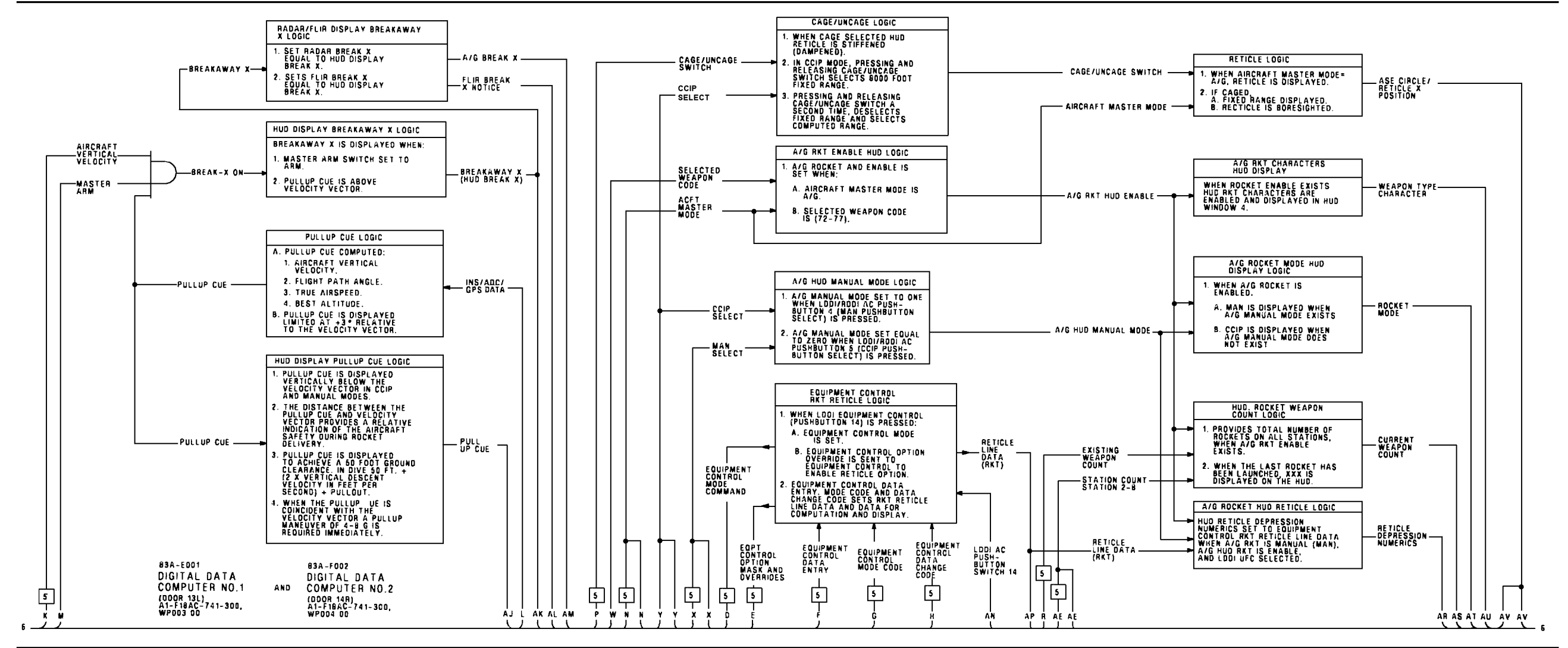


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 7)

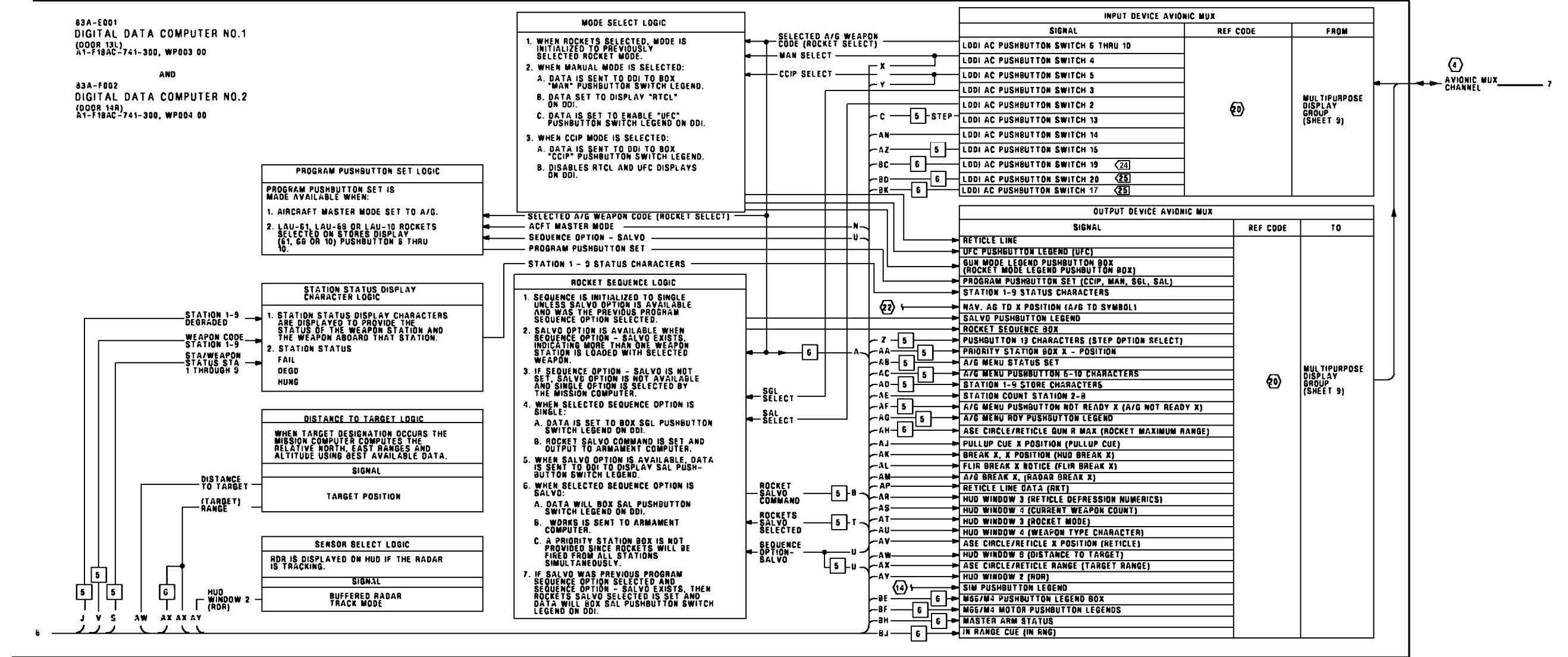


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 8)

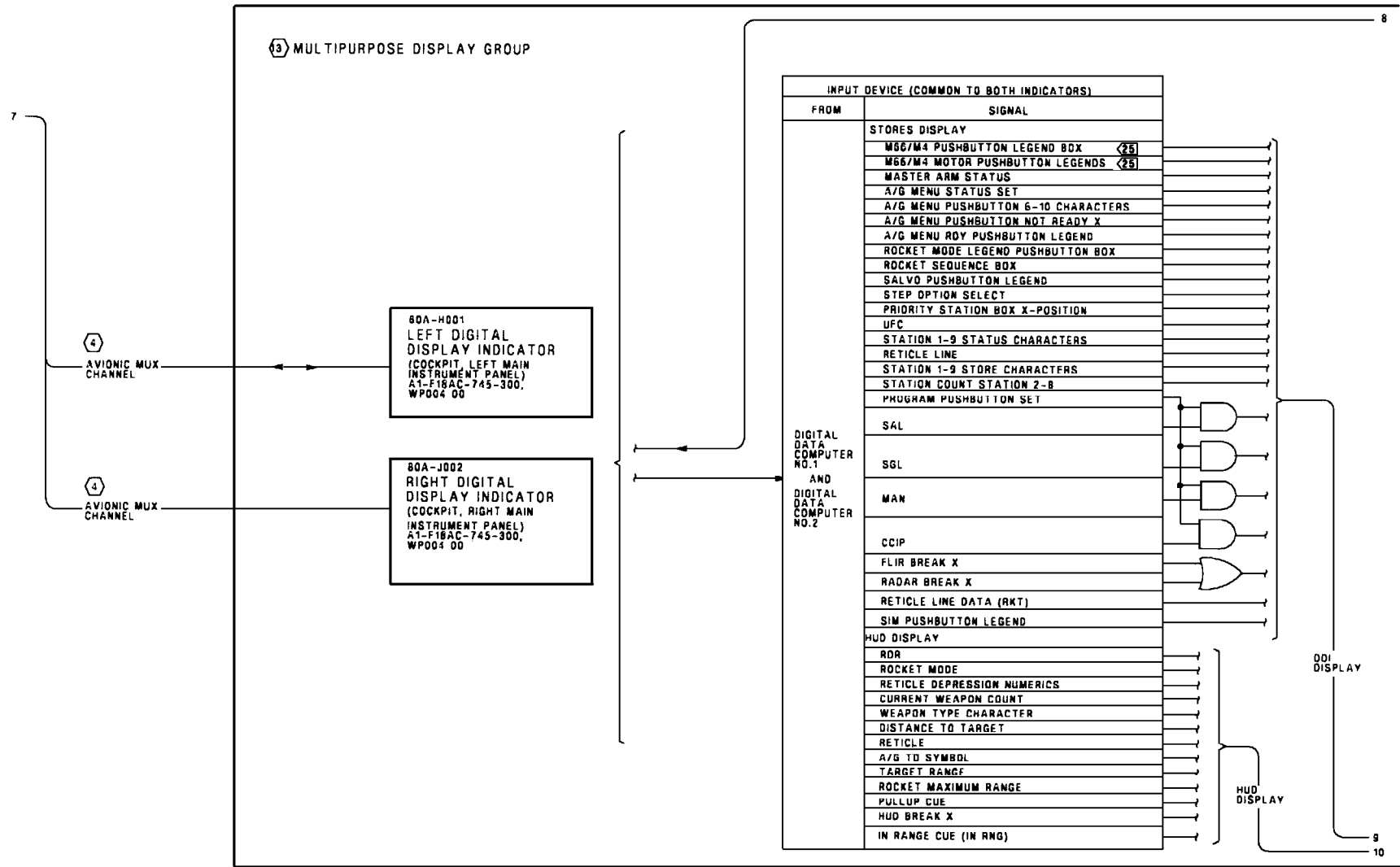


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 9)

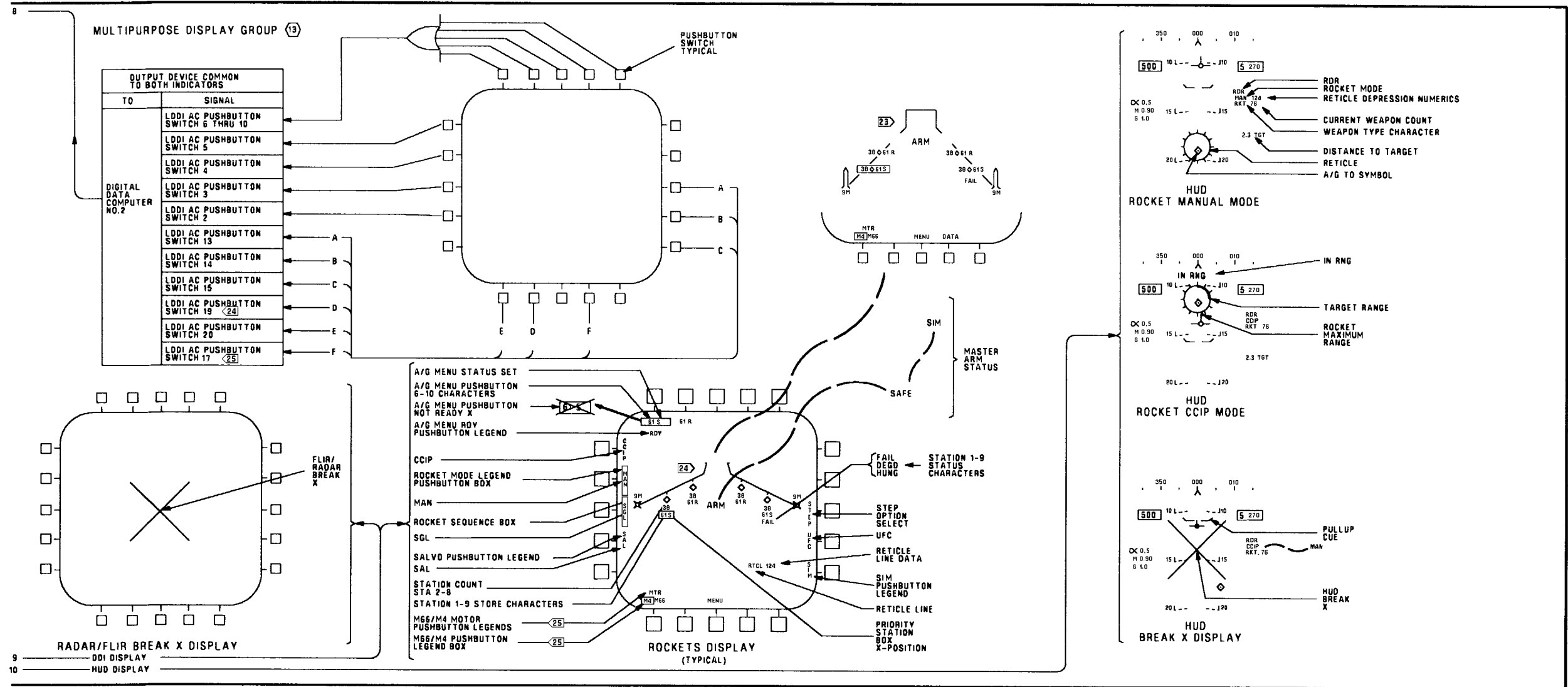


Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 10)

LEGEND

1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.		
2.	CONTINUITY TEST:	15	FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A(-)-WDM-000.	16	DATA FREEZE DISPLAY SCHEMATIC, WP073 00.
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	17	PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.
	C. WHEN TESTING CONTINUITY, TEST FOR:	18	CROSS CHANNEL/MUX BUS/DISPLAYS FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP021 00.
	(1) SHORTS TO GROUND.	19	APPROACH POWER COMPENSATION FUNCTIONAL SCHEMATIC, A1-F18AC-570-500, WP039 00.
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.		
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	20	DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18A(-)-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST: A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
	(4) SHIELD CONTINUITY.		
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	21	AIR TO GROUND TRACK PROCESSING SCHEMATIC, A1-F18AC-742-500, WP039 00.
4	SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.	22	SENSOR CONTROL SWITCH AND THROTTLE DESIGNATOR CONTROL (TDC) ASSIGNMENT SCHEMATIC, WP025 00.
5	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	23	162394 THRU 163175 BEFORE F/A-18 AFC 253 OR AFC 292.
6	COCKPIT WARNING/ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.	24	162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.
7	STORES INVENTORY SCHEMATIC, WP015 00.	25	WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/IDENT 85A+ AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 87X AND UP (A1-F18AC-SCM-000).
8	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	26	F/A-18B.
9	WEAPON STATION 2, 3, 7, 8 ROCKET SCHEMATIC, WP069 00.	27	161353 THRU 161519 BEFORE F/A-18 AFC 27.
10	ARMAMENT MUX BUS DATA, WP010 00.	28	161520 AND UP; ALSO 161353 THRU 161519 AFTER F/A-18 AFC 27.
11	APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.	29	161353 THRU 161528.
12	MASTER ARM SCHEMATIC, WP017 00.	30	161702 AND UP.
13	MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500, WP004 00.	31	AFTER F/A-18 AFC 231.
14	SIMULATION MODE SELECT SCHEMATIC, WP022 00.		

Figure 1.

Figure 1. Rocket Avionic Interface Schematic (Sheet 11)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - ELECTRICAL FUZING

STORES MANAGEMENT SYSTEM

Reference Material

None

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F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**

2. The schematic in this work package shows the electrical fuzing system function. The schematic shows aircraft related system operation, electrical

fuzing power supply control and weapon station distribution.

3. Component locations are shown in WP008 00.

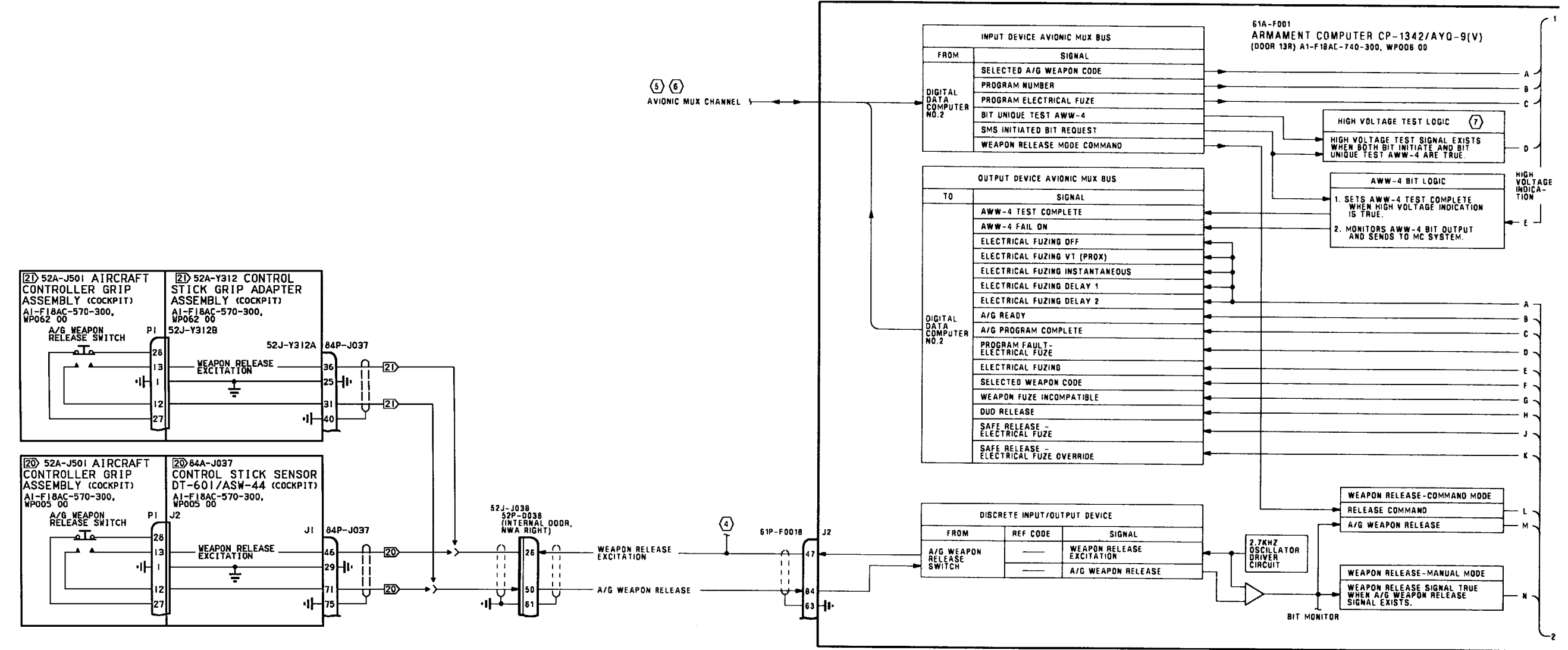


Figure 1.

Figure 1. Electrical Fuzing Schematic (Sheet 1)

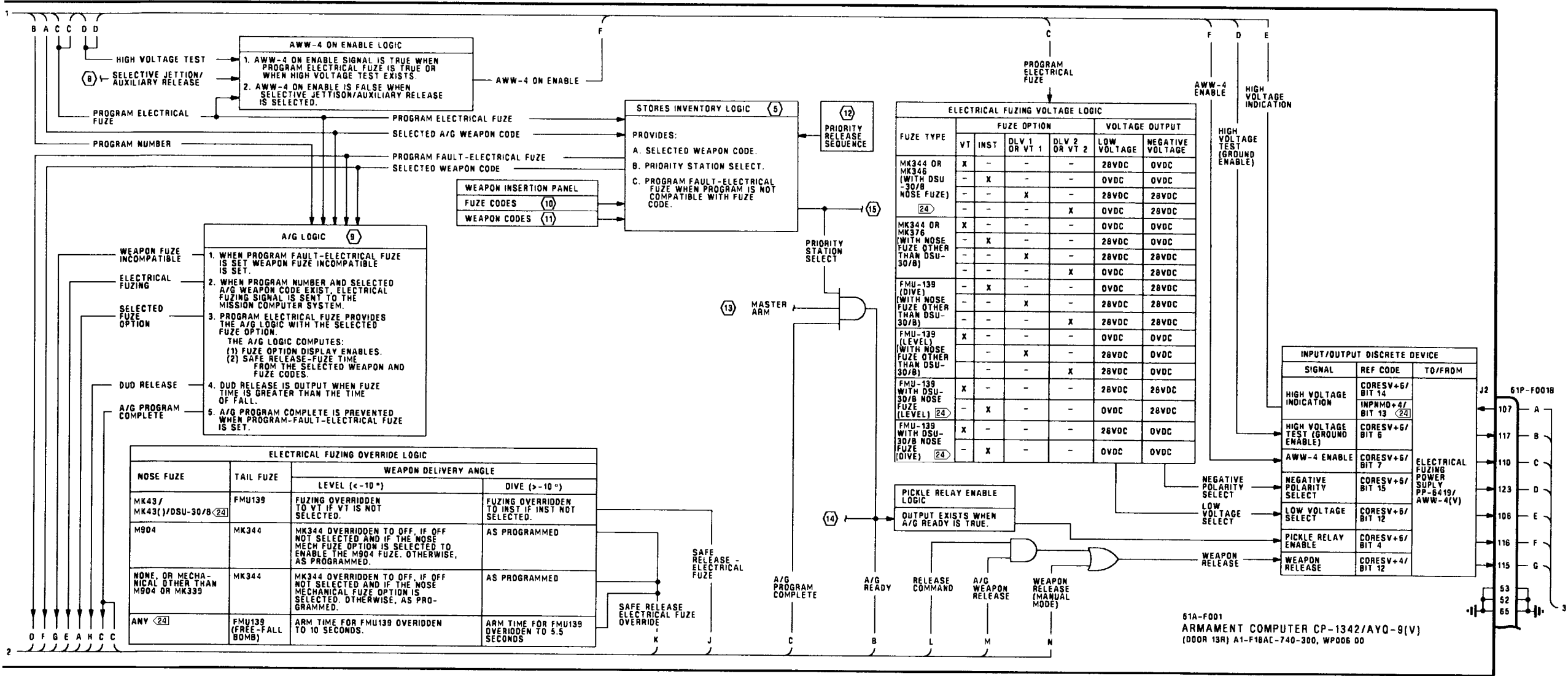


Figure 1.

Figure 1. Electrical Fuzing Schematic (Sheet 2)

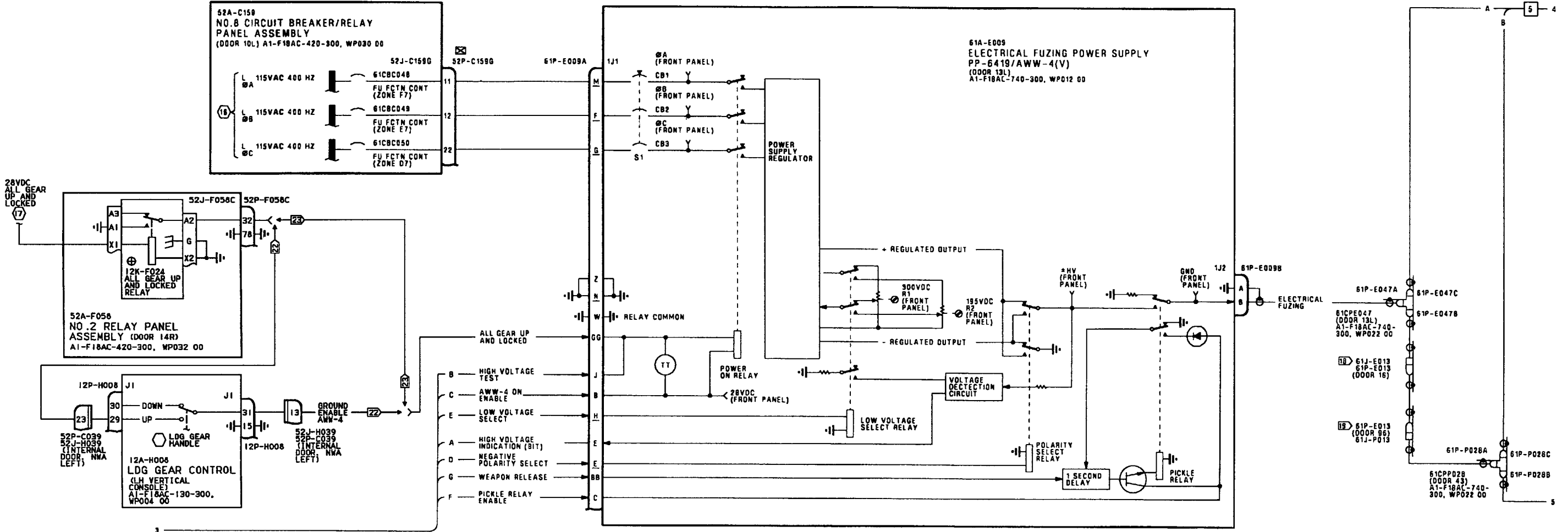


Figure 1.

Figure 1. Electrical Fuzing Schematic (Sheet 1)



Figure 1.

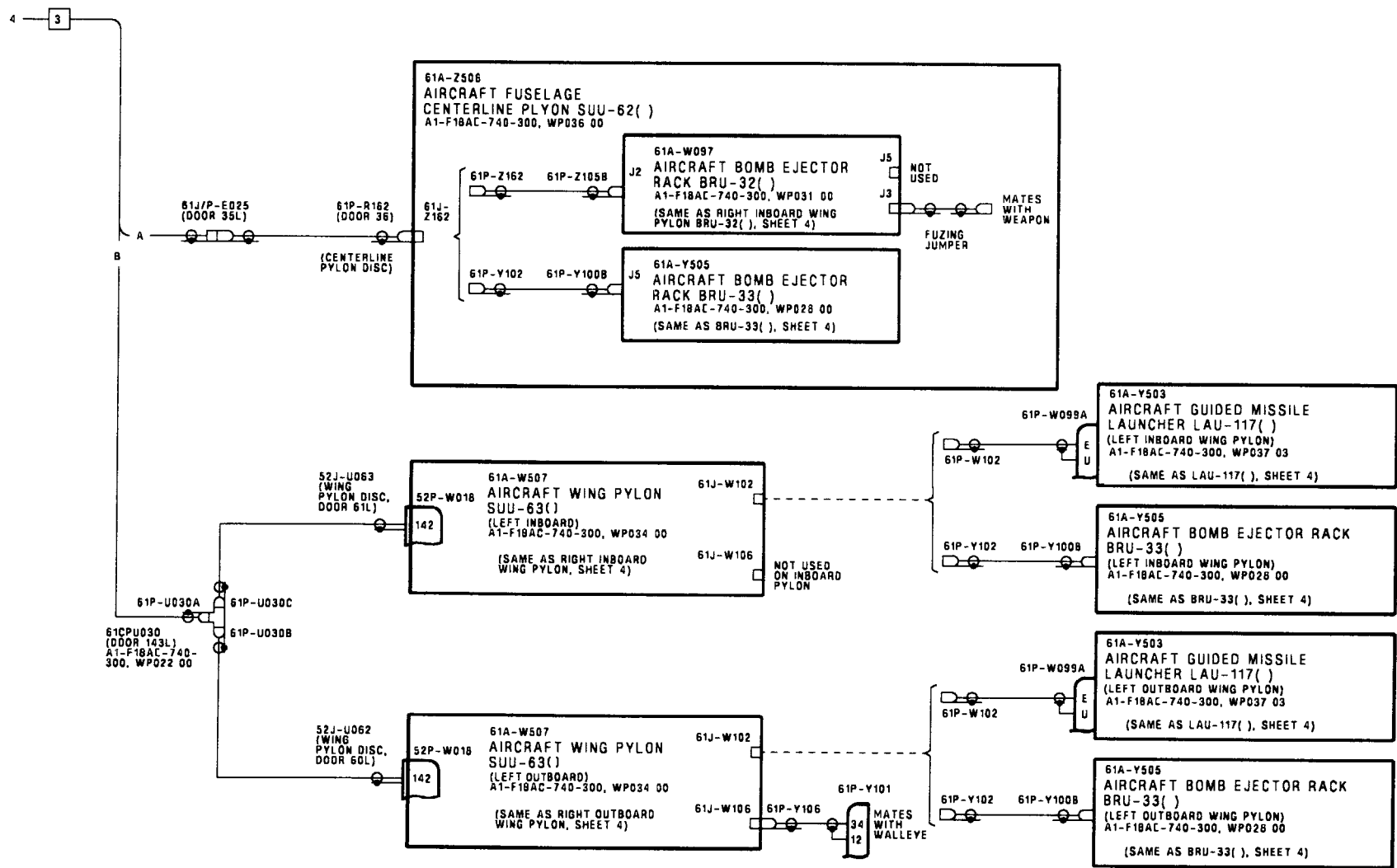


Figure 1.

Figure 1. Electrical Fuzing Schematic (Sheet 2)

























LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST: A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A-()-WDM-000. B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY. C. WHEN TESTING CONTINUITY, TEST FOR: (1) SHORTS TO GROUND. (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS. (3) SHORTS BETWEEN SHIELD AND CONDUCTORS. (4) SHIELD CONTINUITY. D. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ) . MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.	        
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	
	ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.	
	STORES INVENTORY SCHEMATIC, WP015 00.	
	REFER TO APPLICABLE WEAPON SYSTEM AVIONIC INTERFACE SCHEMATIC: BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00. WALLEYE AVIONIC INTERFACE SCHEMATIC, WP073 00. AGM-65 MAVERICK AVIONIC INTERFACE SCHEMATIC, WP052 00.	  
	BUILT-IN TEST AVIONIC INTERFACE SCHEMATIC, WP024 00.	 
	SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.	
		BOMB/MINE DELIVERY PROGRAM SELECT SCHEMATIC, WP065 00. FUZE TYPES AND ARMAMENT COMPUTER FUZE CODES, WP009 00. ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00. PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00. MASTER ARM SCHEMATIC, WP017 00. WEAPON SELECT SCHEMATIC, WP016 00. BUILT-IN TEST SCHEMATIC, WP022 00. AC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP003 00. LANDING GEAR CONTROLLED RELAYS SCHEMATIC, A1-F18AC-130-500, WP006 00. F/A-18A. F/A-18B 161353 THRU 161519 BEFORE F/A-18 AFC 27. 161520 AND UP; ALSO 161359 THRU 161519 AFTER F/A-18 AFC 27. 161353 THRU 161987 BEFORE F/A-18 AFC 037. 162394 AND UP; ALSO 161353 THRU 161987 AFTER F/A-18 AFC 037. 162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292. LANDING GEAR CONTROL SYSTEM SCHEMATIC, A1-F18AC-130-500, WP004 00.

Figure 1.

Figure 1. Electrical Fuzing Schematic (Sheet 6)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - MECHANICAL FUZING

STORES MANAGEMENT SYSTEM

Reference Material

None

Alphabetical Index

Subject	Page No.
Introduction	1
Mechanical Fuzing Schematic, Figure 1	2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. **INTRODUCTION.**
- shows aircraft related system operation and weapon station functions.
2. The schematic in this work package shows the mechanical fuzing system function. The schematic
3. The location of the components on this schematic can be seen in WP008 00.

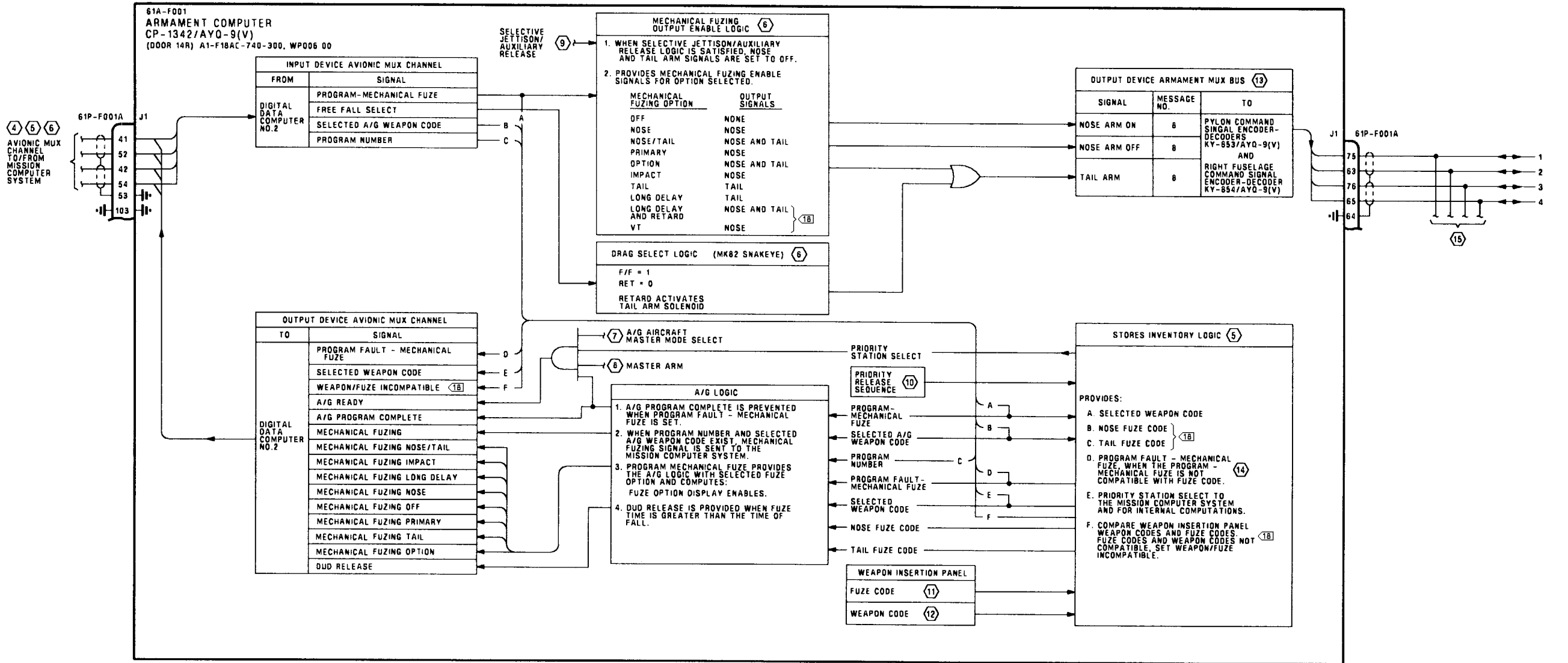


Figure 1.

Figure 1. Mechanical Fuzing Schematic (Sheet 1)

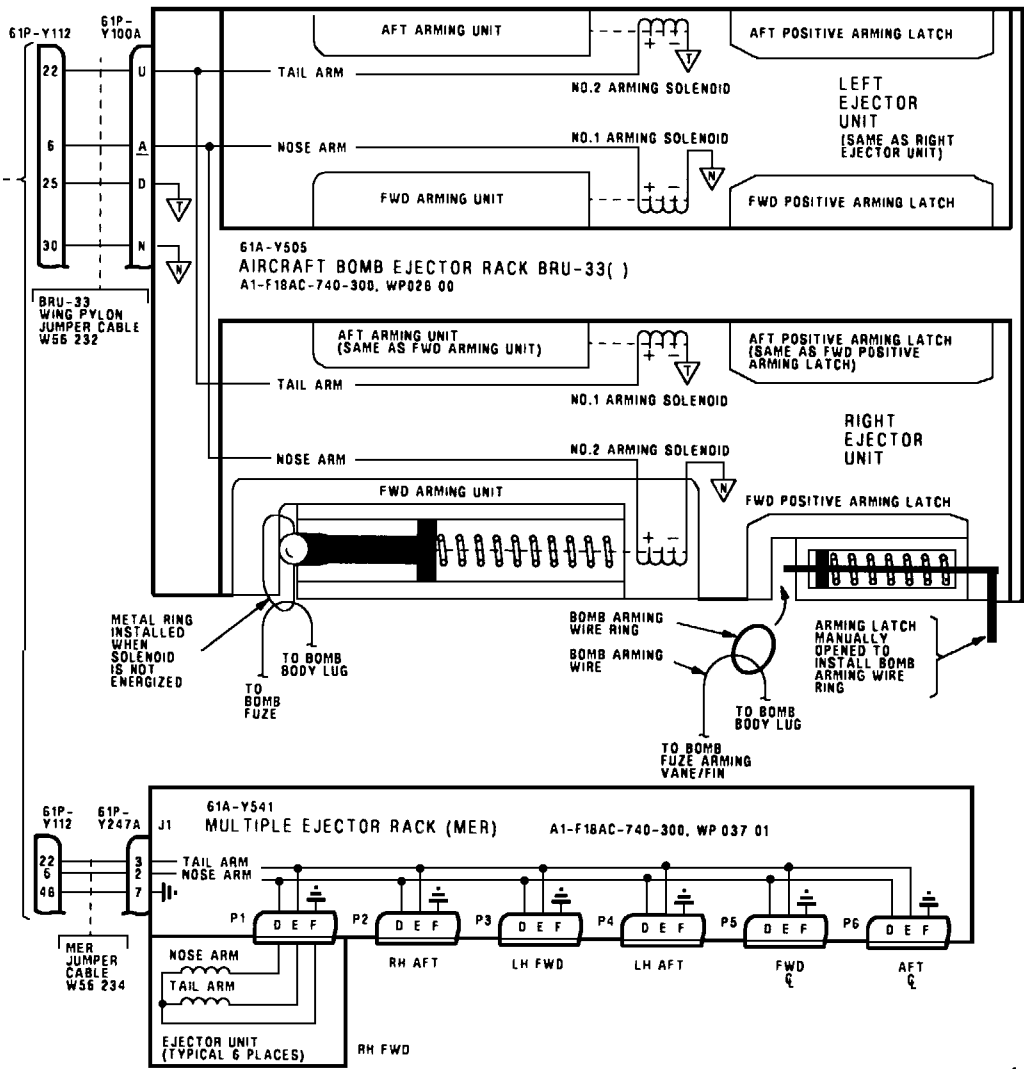
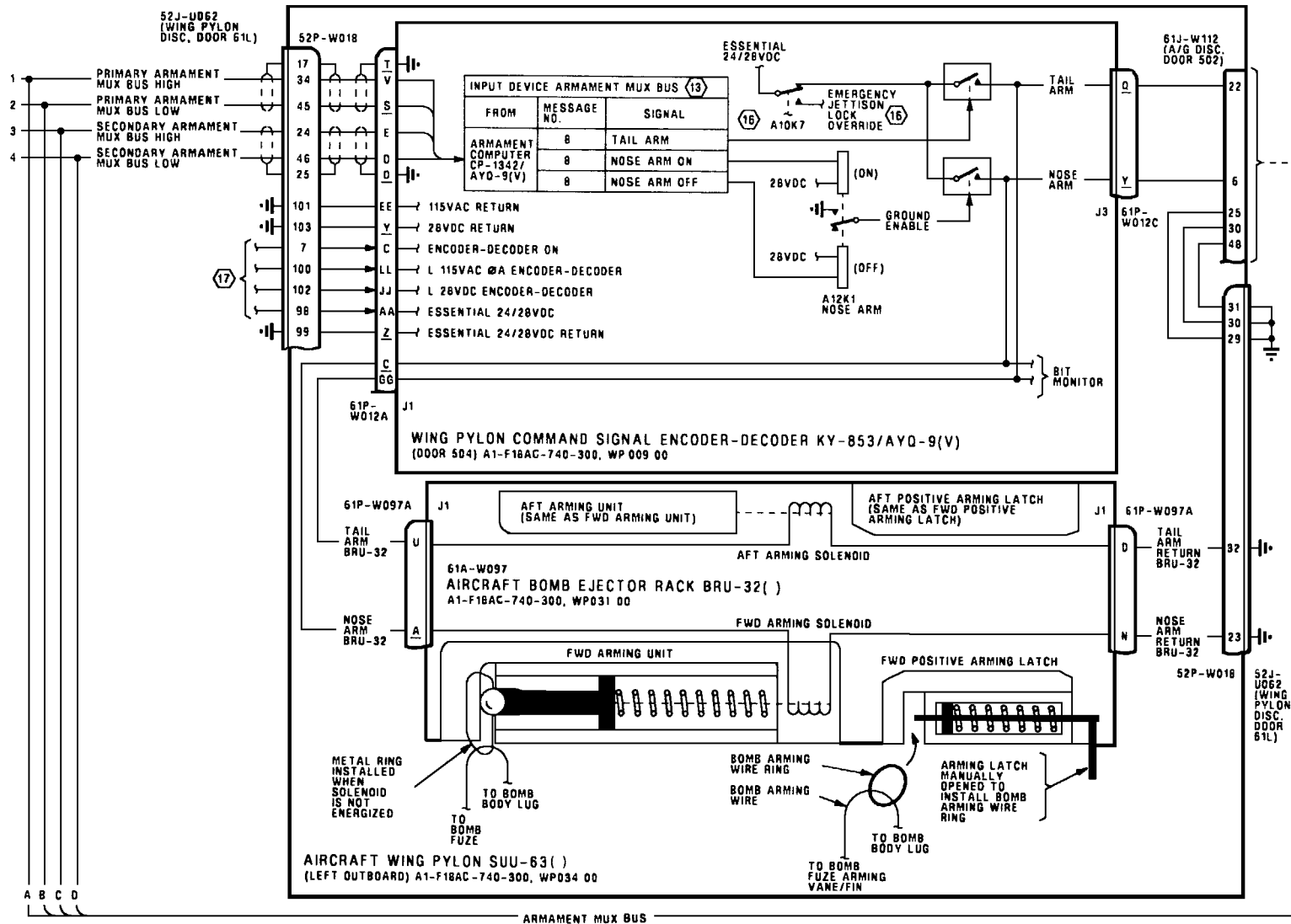


Figure 1.

Figure 1. Mechanical Fuzing Schematic (Sheet 2)

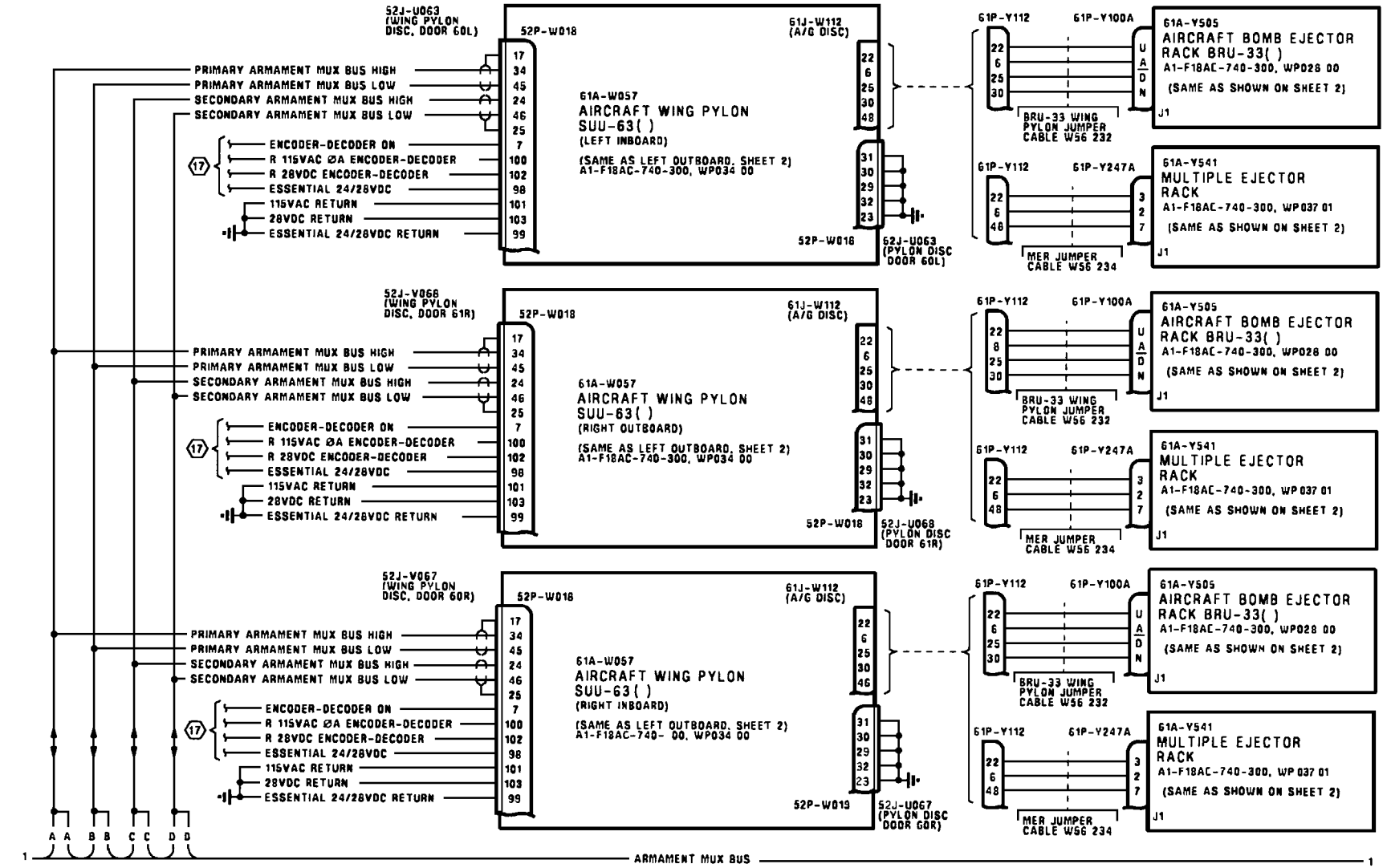


Figure 1.

Figure 1. Mechanical Fuzing Schematic (Sheet 3)



Figure 1. Mechanical Fuzing Schematic (Sheet 4)

LEGEND		
1.	NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.	
2.	CONTINUITY TEST:	
	A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A-()-WDM-000.	10
	B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.	11
	C. WHEN TESTING CONTINUITY, TEST FOR:	12
	(1) SHORTS TO GROUND.	13
	(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.	14
	(3) SHORTS BETWEEN SHIELD AND CONDUCTORS.	15
	(4) SHIELD CONTINUITY.	16
3.	LINE UNDER LETTER (S) INDICATES LOWER PIN LETTERS.	17
4	BOMB/MINE DELIVERY PROGRAM SELECT SCHEMATIC, WP065 00.	
5	STORES INVENTORY SCHEMATIC, WP015 00.	
6	BOMB AVIONIC INTERFACE SCHEMATIC, WP063 00.	
7	AIRCRAFT MASTER MODE SELECT SCHEMATIC, WP014 00.	
8	MASTER ARM SCHEMATIC, WP017 00.	18
9	SELECTIVE JETTISON/AUXILIARY RELEASE SCHEMATIC, WP019 00.	19
		PRIORITY WEAPON STATION RELEASE SEQUENCE, WP009 00.
		FUZE TYPES AND ARMAMENT COMPUTER FUZE CODES, WP009 00.
		ARMAMENT COMPUTER WEAPON INSERTION PANEL STORE CODES AND WEAPON DISPLAYS, WP009 00.
		ARMAMENT MUX BUS DATA, WP010 00.
		CONVENTIONAL WEAPON/FUZE COMPATIBILITY, WP009 00.
		ARMAMENT COMPUTER INPUT/OUTPUT INTERFACE SCHEMATIC, WP011 00.
		EMERGENCY JETTISON SCHEMATIC, WP018 00.
		APPLICABLE WEAPON STATION POWER CONTROL SCHEMATIC: WEAPON STATION 2 POWER CONTROL SCHEMATIC, WP027 00. WEAPON STATION 3 POWER CONTROL SCHEMATIC, WP028 00. WEAPON STATION 5 POWER CONTROL SCHEMATIC, WP030 00. WEAPON STATION 7 POWER CONTROL SCHEMATIC, WP032 00. WEAPON STATION 8 POWER CONTROL SCHEMATIC, WP033 00.
		162394 THRU 163175 AFTER F/A-18 AFC 253 OR AFC 292.
		162394 THRU 163175 BEFORE F/A-18 AFC 253 OR AFC 292.

Figure 1.

Figure 1. Mechanical Fuzing Schematic (Sheet 5)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - DATA FREEZE DISPLAY

STORES MANAGEMENT SYSTEM

Title	WP Number
Data Freeze Display Schematic - 161353 AND UP BEFORE	
F/A-18 AFC 253 OR F/A-18 AFC 292	073 01
Data Freeze Display Schematic - 161353 AND UP AFTER	
F/A-18 AFC 253 OR F/A-18 AFC 292	073 02

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****SCHEMATIC - DATA FREEZE DISPLAY****STORES MANAGEMENT SYSTEM**

**EFFECTIVITY: WITH ARMAMENT COMPUTER CP-1342/AYQ-9(V) CONFIG/ IDENT 85A +
AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 85A + AND UP
(A1-F18AC-SCM-000) AND 161353 AND UP BEFORE F/A-18 AFC 253
OR F/A-18 AFC 292**

Reference Material

None

Alphabetical Index

Subject	Page No.
Data Freeze Display Schematic, Figure 1	2
Introduction	1

Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. The schematic in this work package shows the related system functions for the data freeze display. This schematic supports

all weapon modes and aircraft master modes associated with data freeze display.

3. The location of the components on this schematic can be seen in WP008 00.

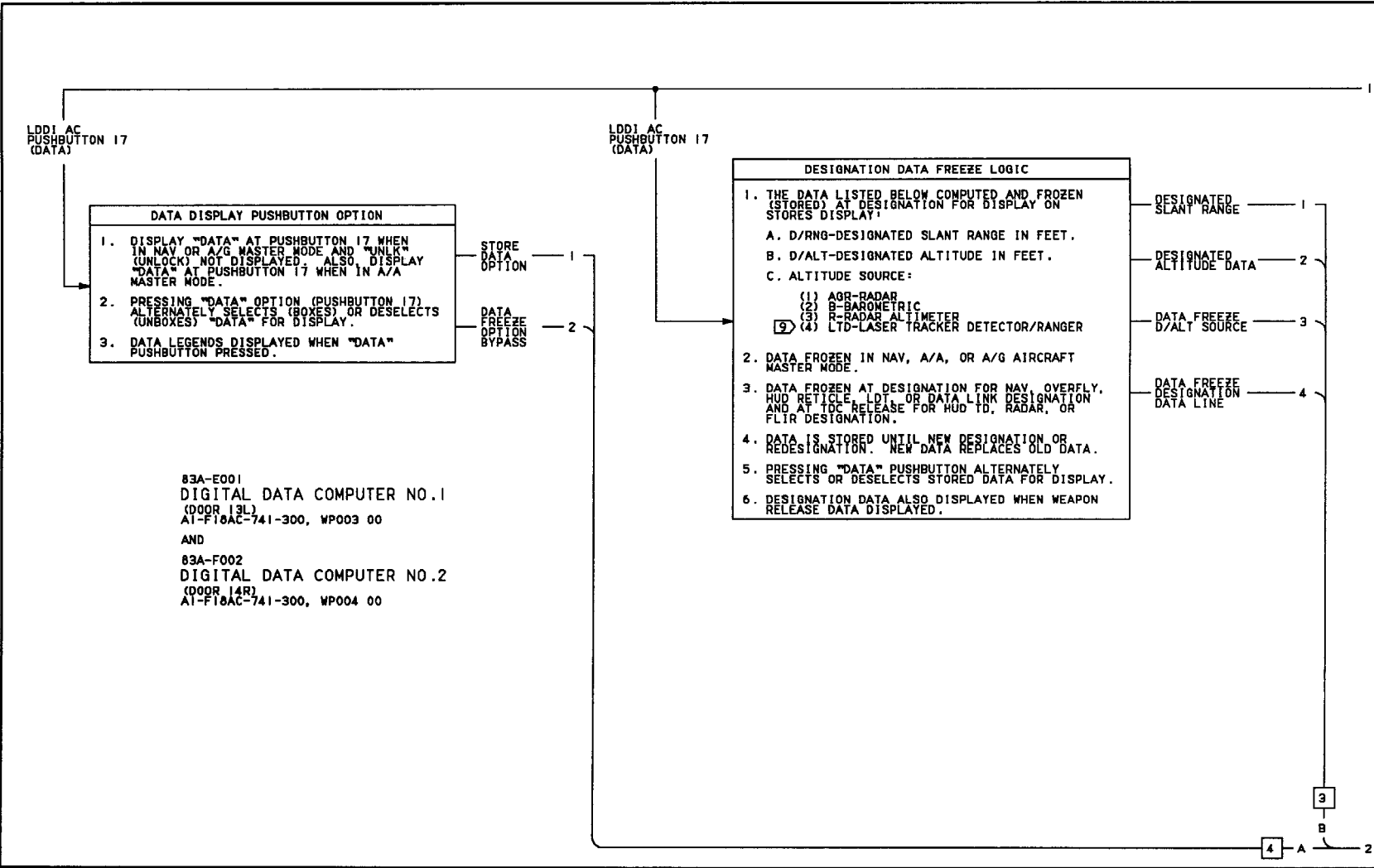


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 1)

83A-E001
DIGITAL DATA COMPUTER NO.1 AND
(DOOR 13L)
A1-F18AC-741-300,
WP003 00

83A-F002
DIGITAL DATA COMPUTER NO.2
(DOOR 14R)
A1-F18AC-741-300,
WP004 00

LDD1 AC
PUSHBUTTON 17
(DATA)

WEAPON RELEASE DATA FREEZE LOGIC

1. THE DATA LISTED BELOW COMPUTED AND FROZEN (STORED) FOR DISPLAY ON STORES DISPLAY:

- A. RNG-
(1) SLANT RANGE IN FEET (BOMB MODES EXCEPT MANUAL)
(2) SLANT RANGE TO GROUND IN FEET (A/G GUN AND ROCKET-CCIP AND MANUAL MODE)
(3) SLANT RANGE IN FEET (HARM PREBRIEFED MODE)
(4) RANGE TO TARGET IN FEET (AIM-7, AIM-9, AND A/A GUN-SINGLE TARGET TRACK)
- B. ERROR-
(1) SIZUWTH STEERING ERROR IN FEET: L(LEFT), R(RIGHT) (BOMB-AUTO AND FLIGHT DIRECTOR MODE)
(2) ERROR ANGLES IN MILLIRADIANS: U(UP), D(DOWN), L(LEFT), R(RIGHT) (A/G GUN AND ROCKET-CCIP MODE; DISPLAYED AND UPDATED ONLY IF A SENSOR IS TRACKING THE TARGET)
(3) STEERING ANGLE ERROR IN MILLIRADIANS: L(LEFT), R(RIGHT) (HARM PREBRIEFED MODE)
(4) ERROR ANGLES IN MILLIRADIANS: U(UP), D(DOWN), L(LEFT), R(RIGHT) (A/A GUN AND AIM-9-SINGLE TARGET TRACK)
- C. RMAX-
MAXIMUM RANGE IN FEET (A/G GUN AND ROCKET-CCIP MODE; A/A GUN-SINGLE TARGET TRACK)
- D. VC-
CLOSING VELOCITY IN KNOTS (AIM-7, AIM-9, A/A GUN-SINGLE TARGET TRACK)
- E. G-
NORMAL ACCELERATION IN G'S (BOMB-AUTO, FLIGHT DIRECTOR-CCIP, AND MANUAL MODES; A/G GUN AND ROCKET-CCIP AND MANUAL MODE; HARM PREBRIEFED MODE)
- F. V-
TARGET VELOCITY IN MACH (AIM-7, AIM-9, A/A GUN-SINGLE TARGET TRACK)
- G. BANK-
COMMAND BANK ANGLE IN DEGREES (BOMB-FLIGHT DIRECTOR MODE)
- H. ΔALT-
DELTA ALTITUDE IN FEET (AIM-7, AIM-9, A/A GUN-SINGLE TARGET TRACK)
- I. ASPECT-
ASPECT ANGLE IN DEGREES (AIM-7, AIM-9, A/A GUN-SINGLE TARGET TRACK)
- J. BEAM-
BEAM CLOSING RATE IN FEET PER SECOND. (AIM-7-SINGLE TARGET TRACK)
- K. ALT-
ALTITUDE ABOVE GROUND IN FEET; ALTITUDE SOURCE-B (BAROMETRIC) AGR (RADAR) R (RADAR ALTIMETER), LTO (LASER TRACKER DETECTOR/RANGER) (BOMB-AUTO, FLIGHT DIRECTOR-CCIP AND MANUAL MODES; A/G GUN AND ROCKET-CCIP AND MANUAL MODE; HARM PREBRIEFED MODE; AIM-7, AIM-9, A/A GUN-BAROMETRIC ONLY)
- L. TAS-
TRUE AIRSPEED IN KNOTS.
- M. FPA-
FLIGHT PATH ANGLE IN DEGREES.
- N. ROLL-
ROLL ANGLE IN DEGREES; L(LEFT), R(RIGHT)
- O. TOF-
TIME OF FLIGHT IN MINUTES AND SECONDS (BOMB-AUTO, FLIGHT DIRECTOR, AND CCIP MODES; HARM-PREBRIEFED MODE; AIM-9-SINGLE TARGET TRACK) (IF BOMB-AUTO, FLIGHT DIRECTOR OR CCIP MODE, DISPLAY DUD NEXT TO TIME OF FLIGHT IF TIME OF FLIGHT IS LESS THAN WEAPON ARM TIME)
- P. RND5-
NUMBER OF ROUNDS FIRED DURING BURST. ALWAYS 0 IN SIM MODE. (A/G GUN-CCIP AND MANUAL MODE; A/A GUN-SINGLE TARGET TRACK)
- Q. RMAX1-
MAXIMUM RANGE 1 IN NAUTICAL MILES. (AIM-7, AIM-9-SINGLE TARGET TRACK)
- R. RMAX2-
MAXIMUM RANGE 2 IN NAUTICAL MILES. (AIM-7-SINGLE TARGET TRACK)
- S. RMIN-
MINIMUM RANGE IN NAUTICAL MILES. (AIM-7, AIM-9-SINGLE TARGET TRACK)
2. DATA FROZEN (STORED) AT START OF ACTUAL OR SIMULATED WEAPON RELEASE.
3. DATA STORED UNTIL START OF NEXT WEAPON RELEASE. DATA FOR NEW RELEASE STORED IN PLACE OF OLD DATA.
4. PRESSING "DATA" OPTION (PUSHBUTTON 17) ALTERNATELY SELECTS OR DESELECTS STORED DATA FOR DISPLAY.

SLANT RANGE DATA — A
DATA FREEZE SLANT RANGE — B
DATA FREEZE ERROR LINE — C
STEERING ERROR DATA — D
DATA FREEZE ERROR UNITS — E
MAXIMUM RANGE DATA — F
CLOSING VELOCITY DATA — G
DATA FREEZE ACCELERATION LINE — H
DATA FREEZE TARGET VELOCITY — J
BANK ANGLE DATA — K
DELTA ALTITUDE DATA — L
ASPECT DATA — N
RELEASE ALTITUDE DATA — N
ALTITUDE SOURCE — P
TRUE AIRSPEED DATA — R
FLIGHT PATH ANGLE DATA — S
DATA FREEZE ROLL DIRECTION — T
DATA FREEZE ROLL ANGLE — U
TIME OF FLIGHT DATA — V
DATA FREEZE LEAD/LAG ERROR — W
DATA FREEZE RMAX LINE — X
DATA FREEZE TIME OF LABEL — Y
DATA FREEZE ROUNDS EXPENDED — 1
RMAX 1 DATA — 2
RMAX 2 DATA — 3
RMIN DATA — 4
BANK ANGLE DIRECTION — 5
DUD CUE — 6
BEAM DATA — 7

Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 2)

Figure 1.

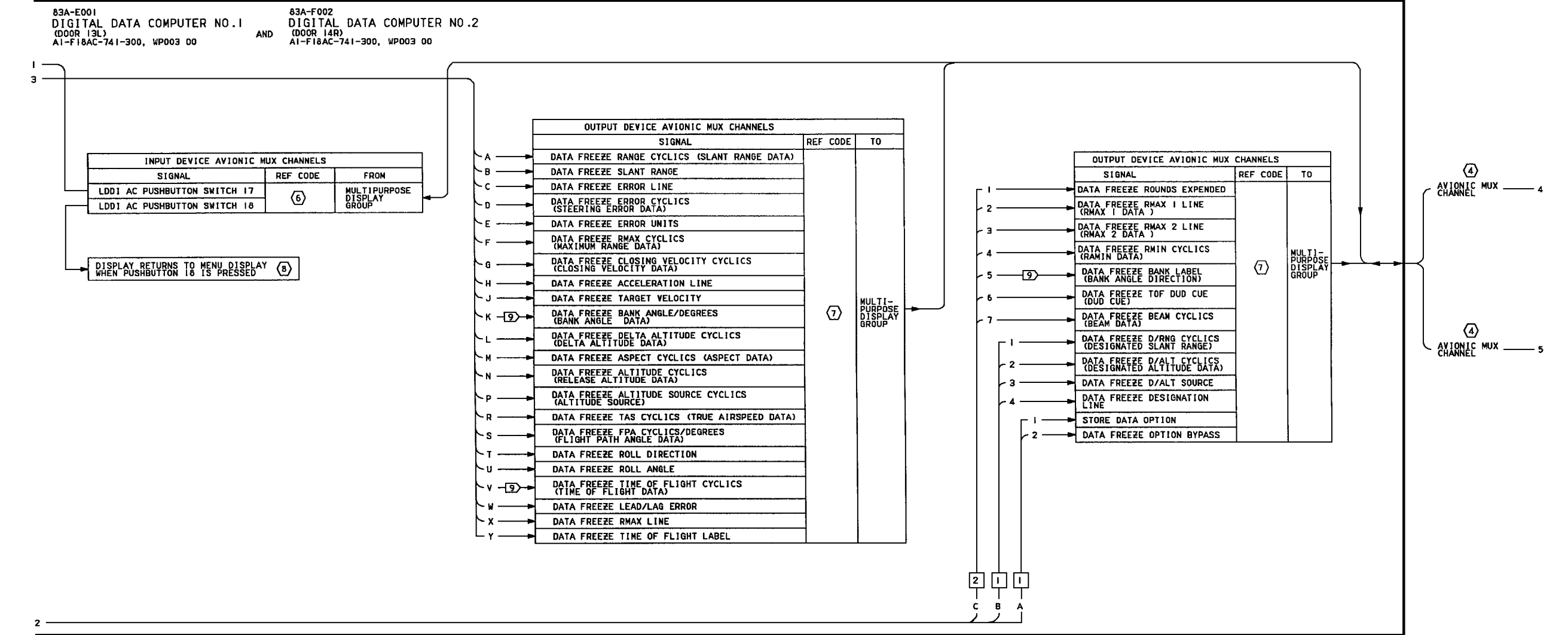


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 3)

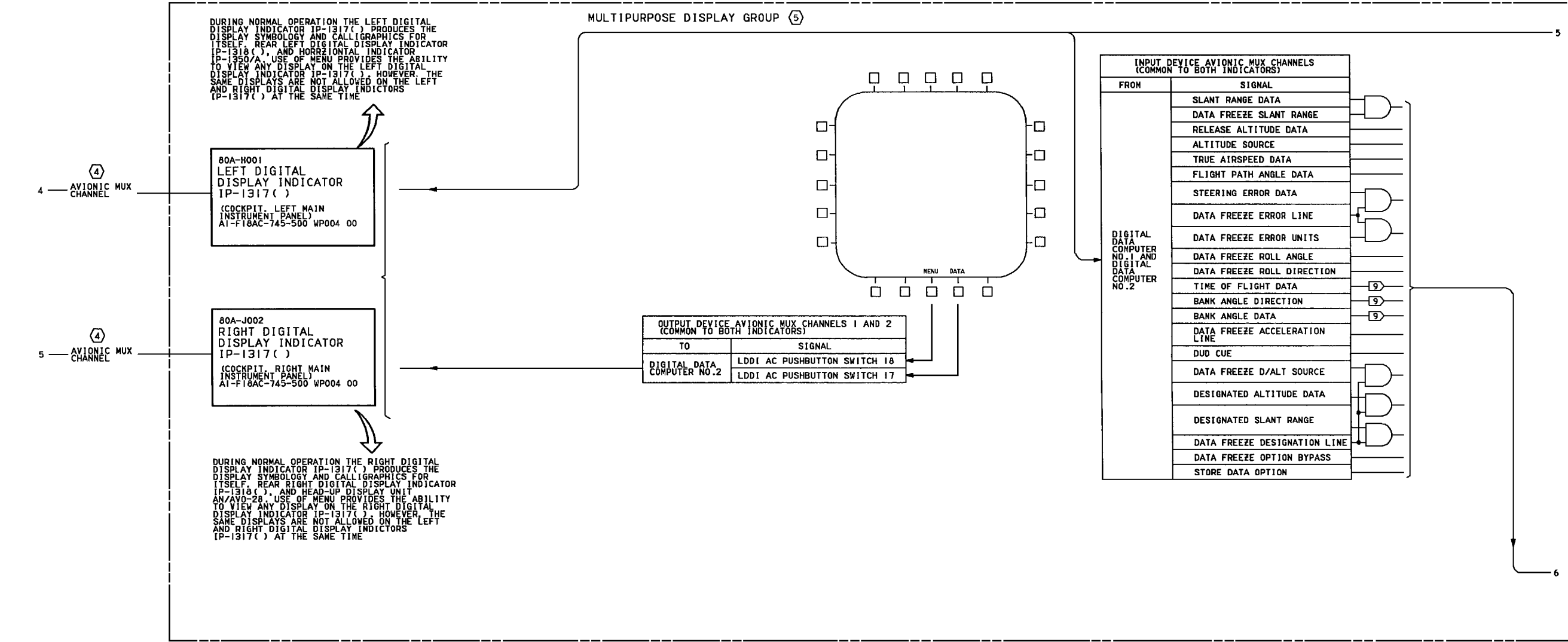


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 4)

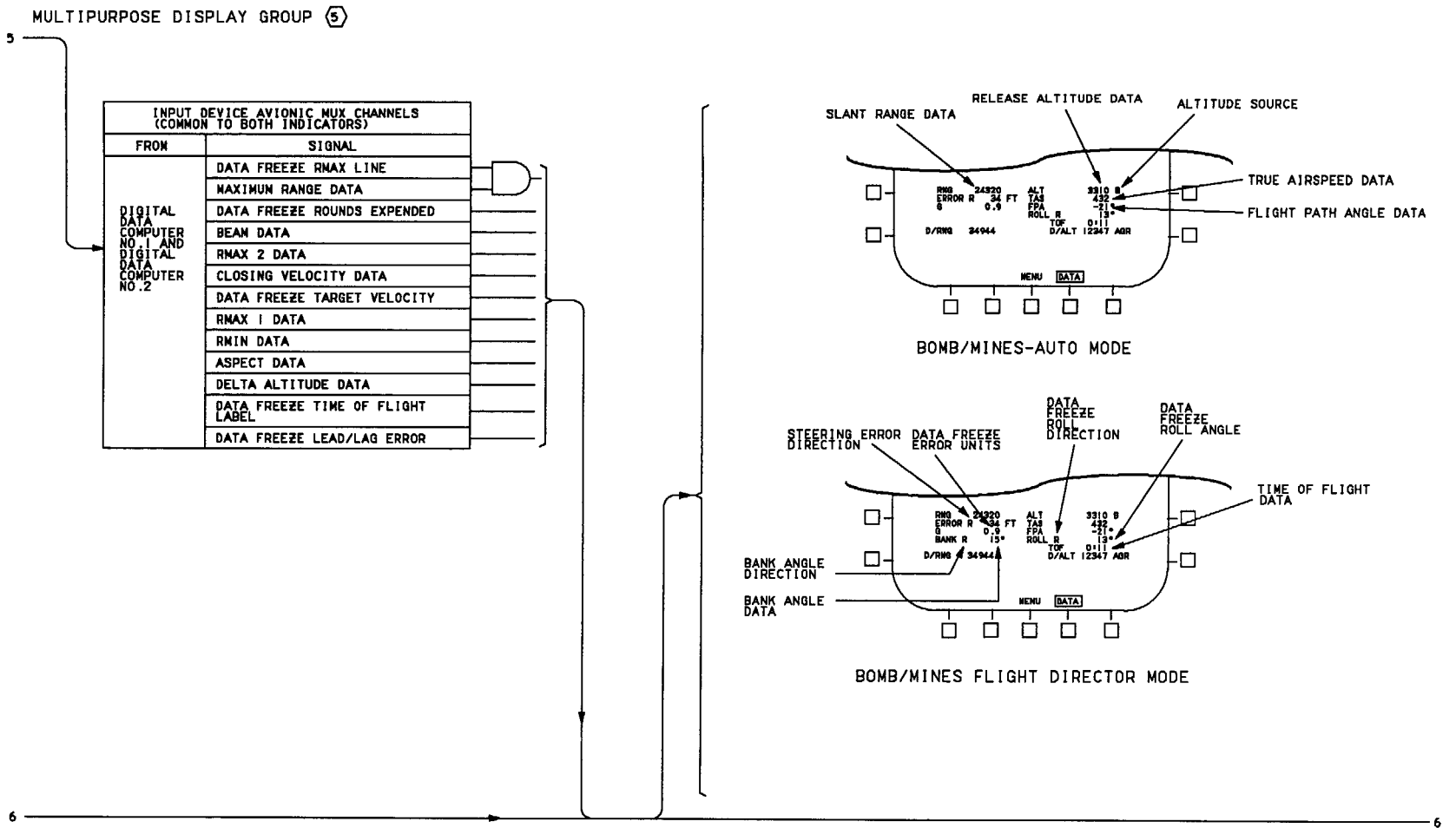


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 5)

MULTIPURPOSE DISPLAY GROUP 5

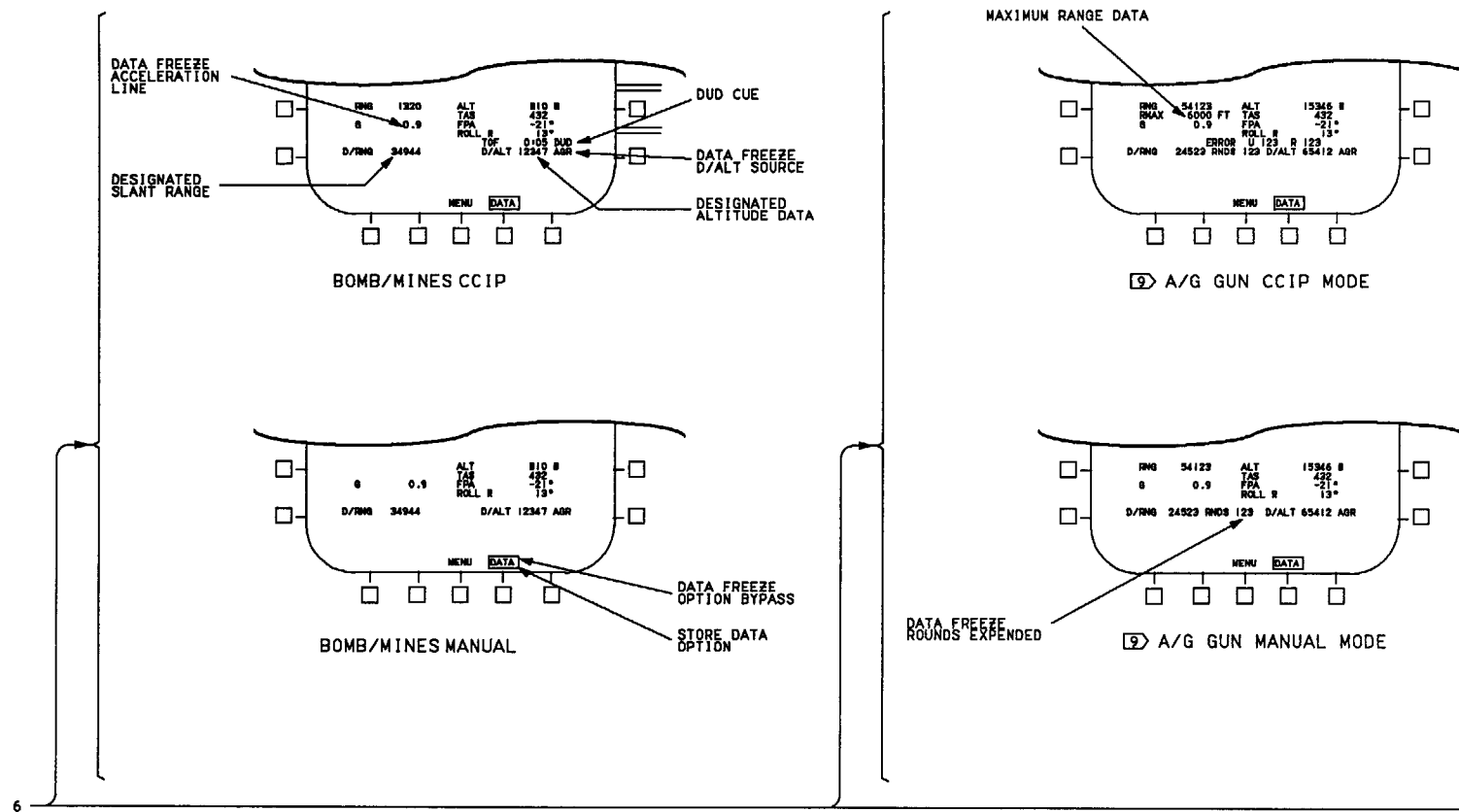
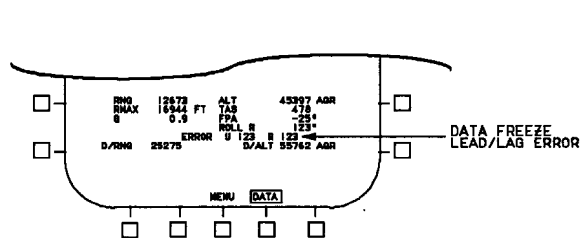


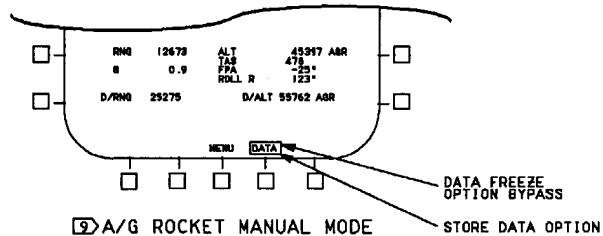
Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 6)

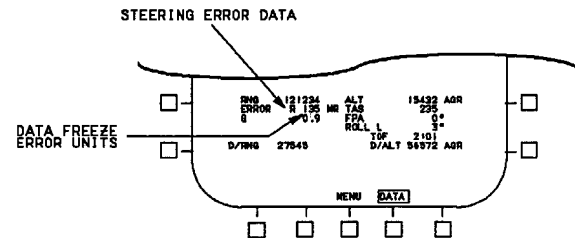
MULTIPURPOSE DISPLAY GROUP 5



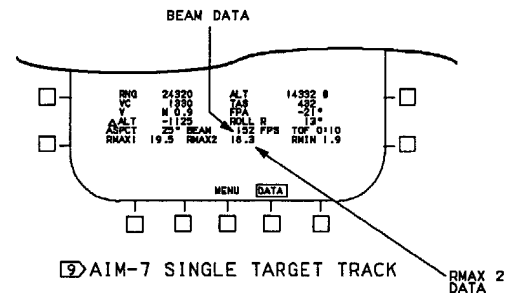
9 A/G ROCKET CCIP MODE



9 A/G ROCKET MANUAL MODE

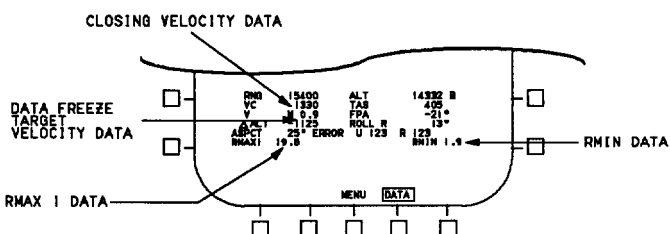


9 HARM PREBRIEFED MODE

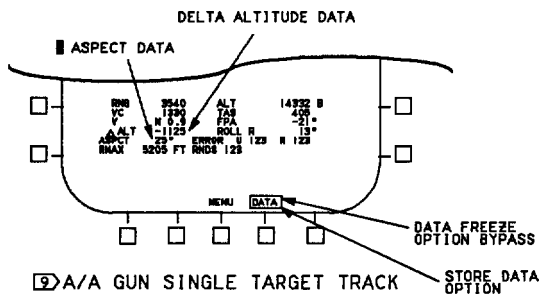


9 AIM-7 SINGLE TARGET TRACK

MULTIPURPOSE DISPLAY GROUP 5



9 AIM-9 SINGLE TARGET TRACK



9 A/A GUN SINGLE TARGET TRACK

Figure 1. Data Freeze Display Schematic (Sheet 8)

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TESTS:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 3. ABBREVIATIONS. REFER TO WP002 01.
- ④ SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
- ⑤ THE MULTIPURPOSE DISPLAY GROUP IS MADE UP OF THE LEFT DIGITAL DISPLAY INDICATOR IP-1317(), RIGHT DIGITAL DISPLAY INDICATOR IP-1317(), HEAD UP DISPLAY UNIT AN/AVQ-28, HORIZONTAL INDICATOR IP-1350/A AND ON F/A-18D THE REAR LEFT DIGITAL DISPLAY INDICATOR IP-1318(), REAR RIGHT DIGITAL DISPLAY INDICATOR IP-1318(), AND REAR CENTER DIGITAL DISPLAY INDICATOR IP-1318(). FOR MULTIPURPOSE DISPLAY GROUP, REFER TO A1-F18AC-745-500.
- ⑥ REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON SWITCH ACTION DOES NOT RESULT IN NORMAL INDICATION, TROUBLESHOOT USING; A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
- ⑦ DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST, A1-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).
- ⑧ MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP010 00.
- 9 WITH ARMAMENT COMPUTER CP-1342/AVQ-9(V) CONFIG/IDENT 85A + AND UP AND DIGITAL DATA COMPUTER CONFIG/IDENT 87X AND UP (A1-F18AC-SCM-000).

Figure 1. Data Freeze Display Schematic (Sheet 9)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - DATA FREEZE DISPLAY

STORES MANAGEMENT SYSTEM

EFFECTIVITY: 161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-
F/A-18 AFC 231	-	Embedded Global Positioning System (GPS)/ Inertial Navigation System (INS) (EGI), Incorporation of (ECP MDA-F/A-18 0521)	1 Jun 02	-

1. **INTRODUCTION.**
- aircraft master modes associated with the data freeze display.
2. The schematic in this work package shows the related system functions for the data freeze display. This schematic supports all weapon modes and
3. The location of the components on this schematic can be seen in WP008 00.

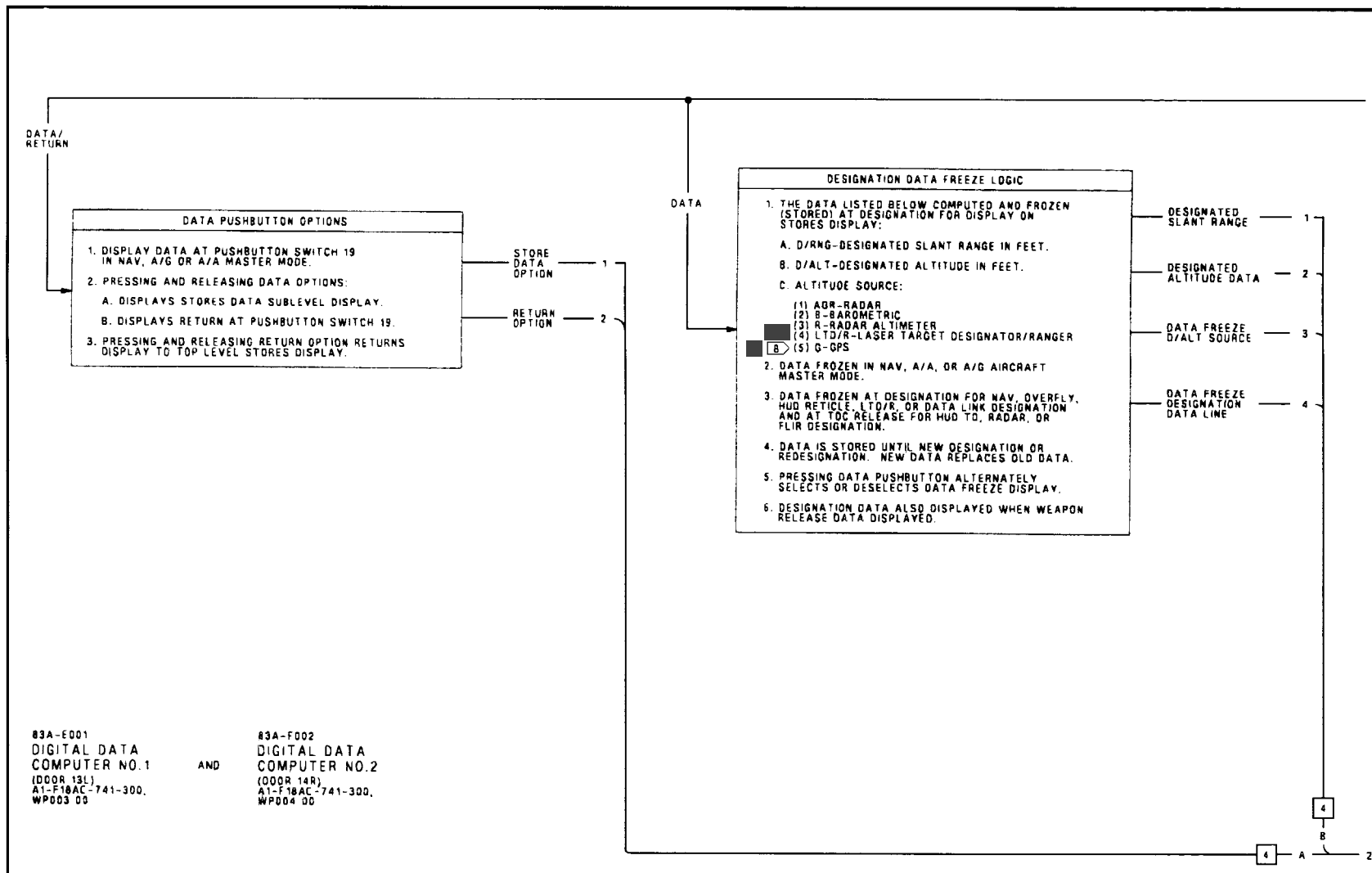


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 1)

Figure 1.

83A-E001

DIGITAL DATA COMPUTER NO.1
(DOOR 13L) A1-F18AC-741-300, WP003 00

AND

83A-F002

DIGITAL DATA COMPUTER NO.2
(DOOR 14R) A1-F18AC-741-300, WP004 00

WEAPON RELEASE DATA FREEZE LOGIC

1. THE DATA LISTED BELOW COMPUTED AND FROZEN
(STORED) FOR DISPLAY ON STORES DISPLAY:

A. RNG-

- (1) SLANT RANGE IN FEET (BOMB MODES EXCEPT MANUAL)
- (2) SLANT RANGE TO GROUND IN FEET (A/G GUN AND ROCKET-CCIP AND MANUAL MODE)
- (3) SLANT RANGE IN FEET (HARM PREBRIEFED MODE AND HARPOON).
- (4) RANGE TO TARGET IN FEET (AIM-7, AIM-9 AND AIM-120 FULL TRACK L AND S).
- (5) RANGE TO TARGET FOR A/A GUN SINGLE TARGET TRACK IN NM IF RANGE GREATER THAN 1NM AND IN FEET IF RANGE LESS 1NM.

B. ERROR-

- (1) AZIMUTH STEERING ERROR IN FEET: L(LEFT), R(RIGHT) (BOMB-AUTO AND FLIGHT DIRECTOR MODE)
- (2) ERROR ANGLES IN MILLIRADIANS: U(UP), D(DOWN), L(LEFT), R(RIGHT) (A/G GUN AND ROCKET-CCIP MODE, DISPLAYED AND UPDATED ONLY IF A SENSOR IS TRACKING THE TARGET)
- (3) STEERING ERROR IN MILLIRADIANS: L(LEFT), R(RIGHT) (HARM PREBRIEFED MODE): HARPOON R/B/L AND BOL MODES ONLY.
- (4) ERROR ANGLES IN MILLIRADIANS: U(UP), D(DOWN), L(LEFT), R(RIGHT) (A/A GUN AND AIM-9 SINGLE TARGET TRACK).

C. RMAX-

MAXIMUM RANGE IN FEET (A/G GUN AND ROCKET-CCIP MODE; A/A GUN-SINGLE TARGET TRACK).

D. VC-

- (1) CLOSING VELOCITY IN KNOTS (AIM-7, AIM-9, AIM-120 FULL TRACK L AND S).
- (2) CLOSING VELOCITY IN FT/SEC FOR A/A GUN SINGLE TARGET TRACK.

E. G-

NORMAL ACCELERATION IN G'S (BOMB-AUTO, FLIGHT DIRECTOR, CCIP, AND MANUAL MODES: A/G GUN AND ROCKET-CCIP AND MANUAL MODE; HARM PREBRIEFED MODE AND HARPOON).

F. V-

TARGET VELOCITY IN MACH (AIM-7, AIM-9, A/A GUN SINGLE TARGET TRACK, AIM-120 FULL TRACK L AND S).

G. BANK-

COMMAND BANK ANGLE IN DEGREES (BOMB-A/G FLIGHT DIRECTOR MODE)

H. ΔALT-

DELTA ALTITUDE IN FEET (AIM-7; AIM-9, A/A GUN SINGLE TARGET TRACK, AIM-120 FULL TRACK L AND S).

I. ASPECT-

ASPECT ANGLE IN DEGREES (AIM-7, AIM-9, A/A GUN SINGLE TARGET TRACK, AIM-120 FULL TRACK L AND S).

J. BEAM-

BEAM CLOSING RATE IN FEET PER SECOND. (AIM-7 SINGLE TARGET TRACK).

K. ALT-

ALTITUDE ABOVE GROUND IN FEET: ALTITUDE SOURCE-L (LTD/R), A (AGR), B (GPS), B (BAROMETRIC), R (RADAR); BOMBS, MINES, ROCKETS, HARPOON, OR A/G GUN; HARM PREBRIEFED MODE; AIM-7, AIM-9, AIM-120, A/A GUN-BAROMETRIC ONLY.

L. TAS-
TRUE AIRSPEED IN KNOTS.

M. FPA-

FLIGHT PATH ANGLE IN DEGREES.

N. ROLL-

ROLL ANGLE IN DEGREES; L(LEFT), R(RIGHT).

O. TOF-

TIME OF FLIGHT IN MINUTES AND SECONDS (HARPOON R/B/L ONLY) (BOMB-AUTO, FLIGHT DIRECTOR, AND CCIP MODES: HARM-PREBRIEFED MODE; AIM-7-SINGLE TARGET TRACK); AIM-120 FULL TRACK L AND S (IF BOMB-AUTO, FLIGHT DIRECTOR OR CCIP MODE, DISPLAY DUD NEXT TO TIME OF FLIGHT IF TIME OF FLIGHT IS LESS THAN WEAPON ARM TIME).

P. RNDG-

NUMBER OF ROUNDS FIRED DURING BURST. ALWAYS 0 IN SIM MODE. (A/G GUN CCIP AND MANUAL MODE; A/A GUN SINGLE TARGET TRACK).

Q. RMAX-

MAXIMUM RANGE IN NAUTICAL MILES. (AIM-7, AIM-9-SINGLE TARGET TRACK, AIM-120 FULL TRACK L AND S).

R. RNE-

TARGET NO ESCAPE LAUNCH RANGE.

S. RMIN-

MINIMUM RANGE IN NAUTICAL MILES. (AIM-7, AIM-9-SINGLE TARGET TRACK, AIM-120 FULL TRACK L AND S).

T. UI-

UNCERTAINTY INDEX INDICATES GENERAL DESCRIPTION OF TRACKING QUALITY (VALUE 0 THRU 7) (RADAR DETERMINED) (AMRAAM).

U. A/C HDG-

AIRCRAFT MAGNETIC HEADING IN DEGREES (HARPOON).

V. LAT-

AIRCRAFT LATITUDE IN DEGREES, MINUTES, AND SECONDS (SLAM).

W. LONG-

AIRCRAFT LONGITUDE IN DEGREES, MINUTES, AND SECONDS (SLAM).

X. RNG-LP-

RANGE IN NAUTICAL MILES TO PREPLANNED LAUNCH POINT (SLAM PREPLANNED MISSIONS ONLY).

Y. GSPD-

AIRCRAFT GROUND SPEED IN KNOTS (SLAM).

Z. HDG-

TRUE AIRCRAFT HEADING IN DEGREES (SLAM).

2. DATA FROZEN (STORED) AT START OF ACTUAL OR SIMULATED WEAPON RELEASE.

3. DATA STORED UNTIL START OF NEXT WEAPON RELEASE. DATA FOR NEW RELEASE STORED IN PLACE OF OLD DATA.

4. PRESSING DATA OPTION ALTERNATELY SELECTS OR DESELECTS DATA FREEZE DISPLAY.

SLANT RANGE DATA — A

DATA FREEZE SLANT RANGE — B

DATA FREEZE ERROR LINE — C

STEERING ERROR DATA — D

DATA FREEZE ERROR UNITS — E

MAXIMUM RANGE DATA — F

CLOSING VELOCITY DATA — G

DATA FREEZE ACCELERATION LINE — H

DATA FREEZE TARGET VELOCITY — J

BANK ANGLE DATA — K

DELTA ALTITUDE DATA — L

ASPECT DATA — M

RELEASE ALTITUDE DATA — N

ALTITUDE SOURCE — P

TRUE AIRSPEED DATA — R

FLIGHT PATH ANGLE DATA — S

DATA FREEZE ROLL DIRECTION — T

DATA FREEZE ROLL ANGLE — U

TIME OF FLIGHT DATA — V

DATA FREEZE LEAD/LAG ERROR — W

DATA FREEZE RMAX LINE — X

TOF LABEL — Y

DATA FREEZE ROUNDS EXPENDED — 1

RMAX DATA — 2

RNE DATA — 3

RMIN DATA — 4

BANK ANGLE — 5

DUD CUE — 6

BEAM DATA — 7

UNCERTAINTY INDEX — 8

AIRCRAFT HEADING DATA — 9

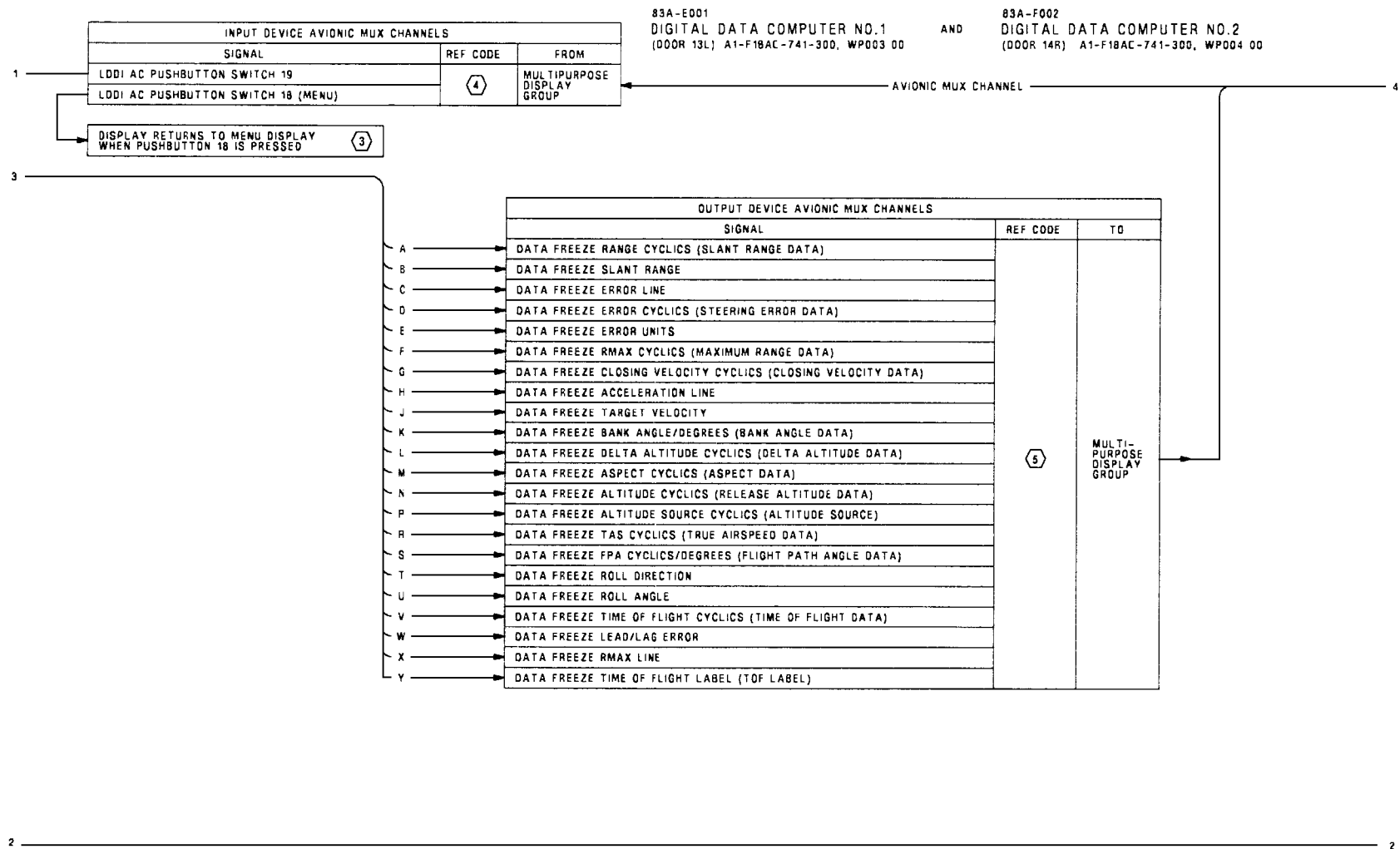
RANGE TO LAUNCH POINT — 10

LONGITUDE DATA — 11

LATITUDE DATA — 12

AIRCRAFT TRUE HEADING DATA — 13

AIRCRAFT GROUND SPEED — 14



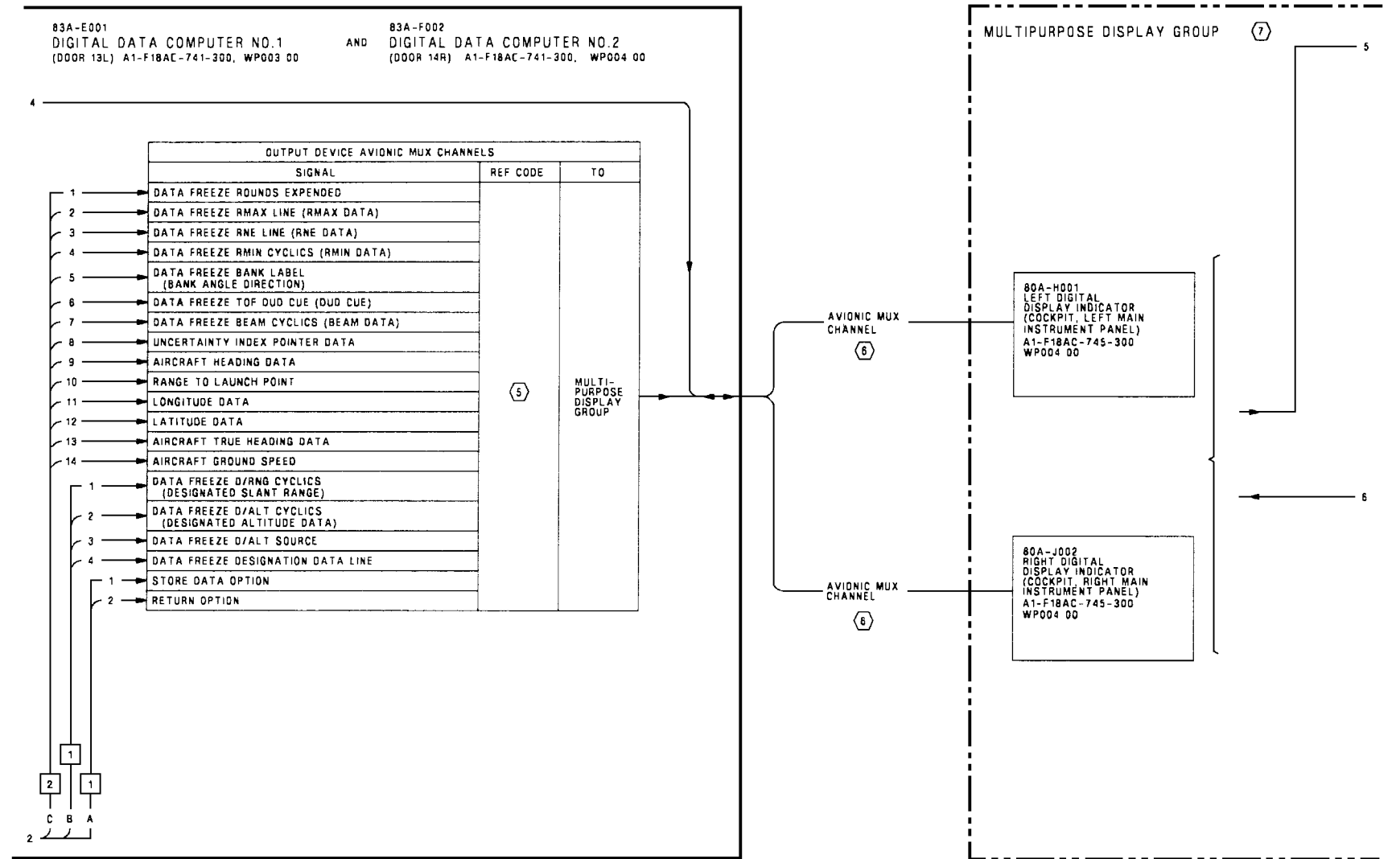


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 4)

Figure 1.

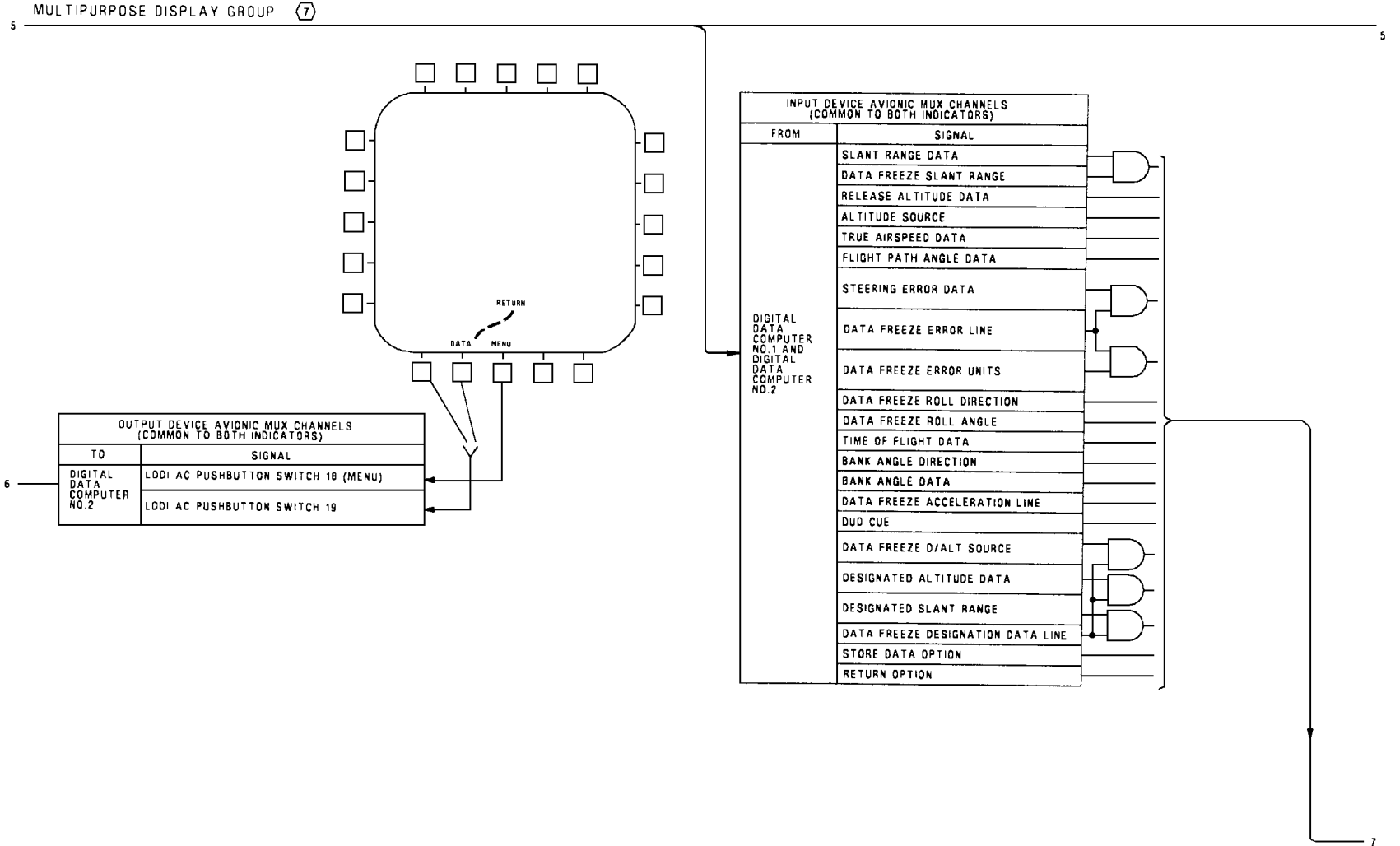


Figure 1. Data Freeze Display Schematic (Sheet 5)

Figure 1.

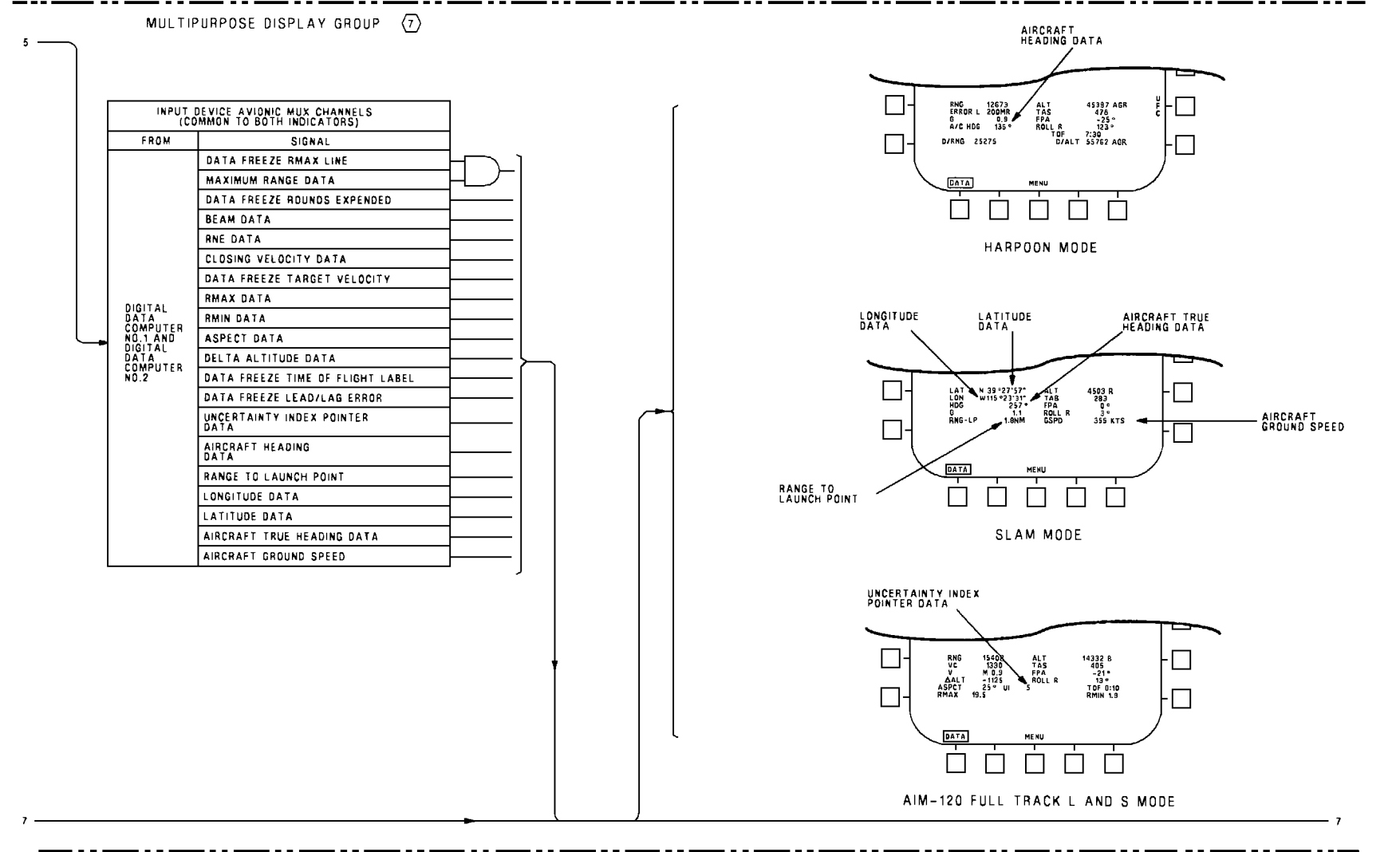


Figure 1. Data Freeze Display Schematic (Sheet 6)

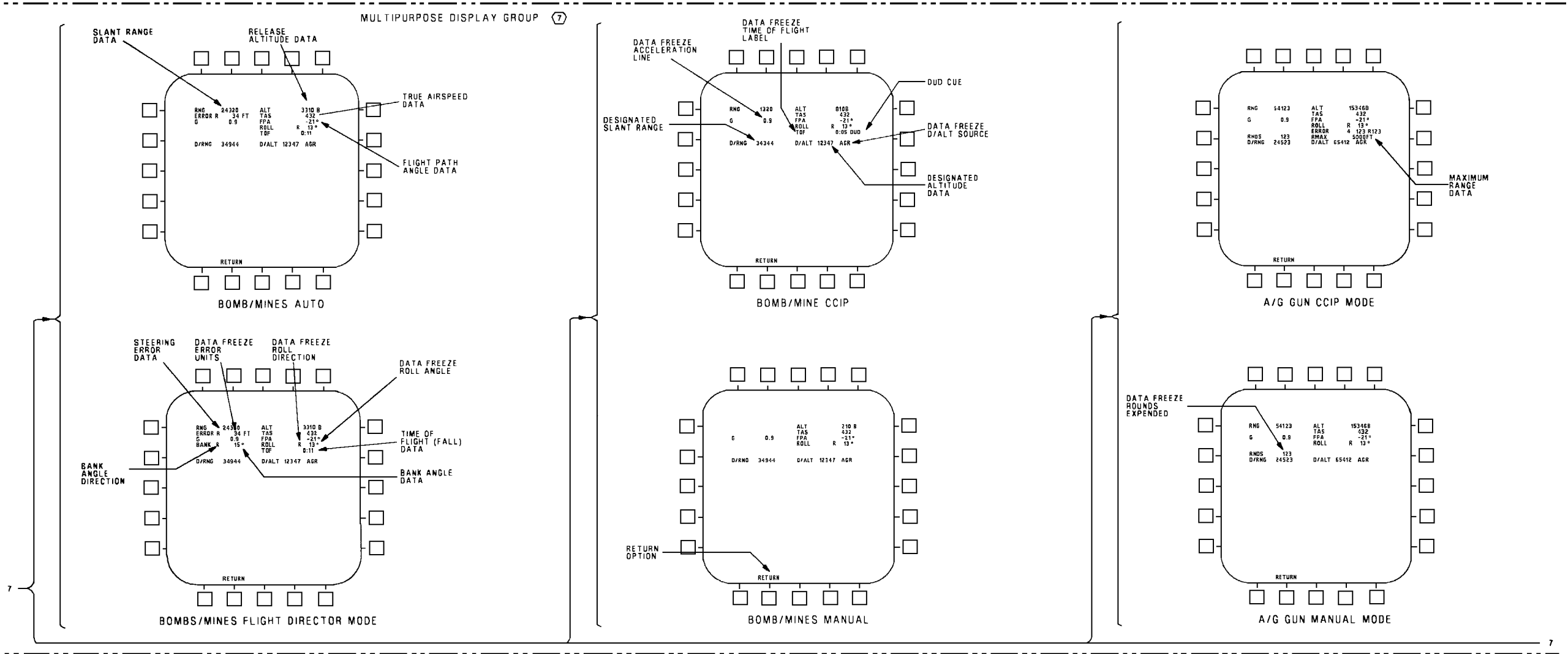


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 7)

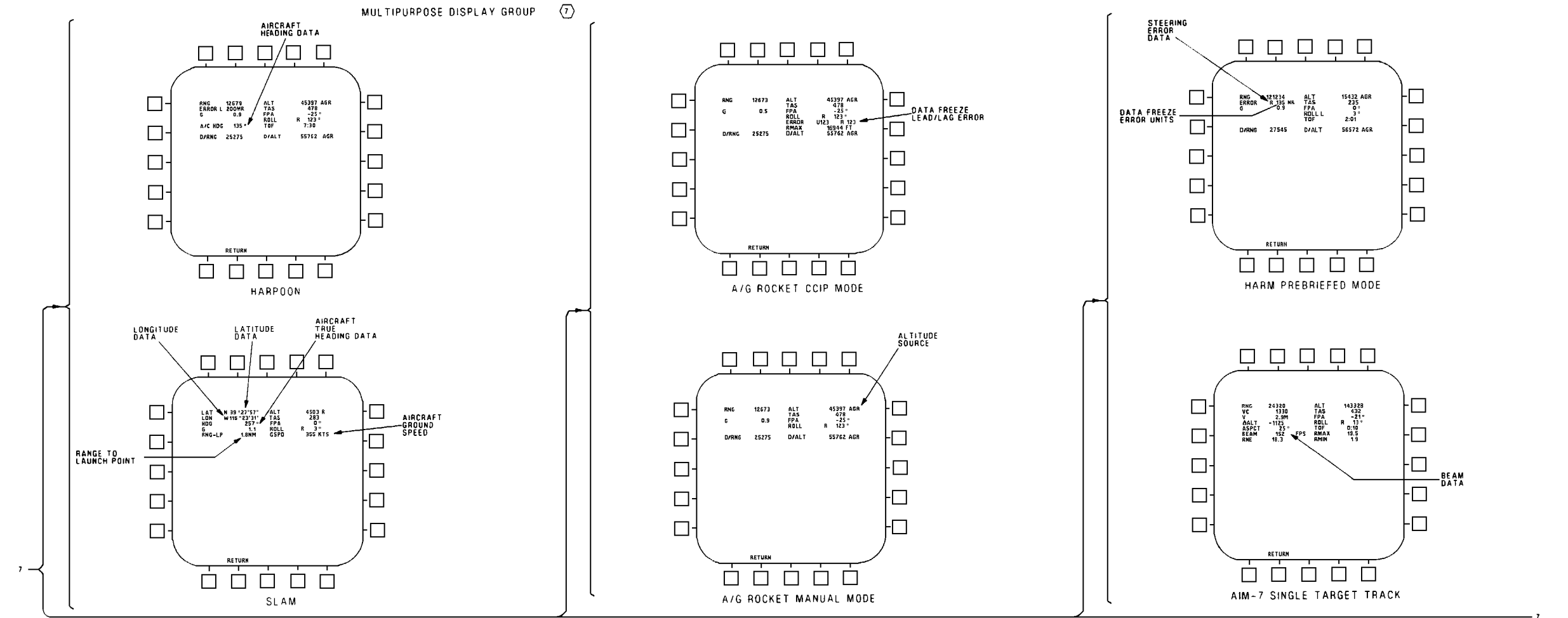


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 8)

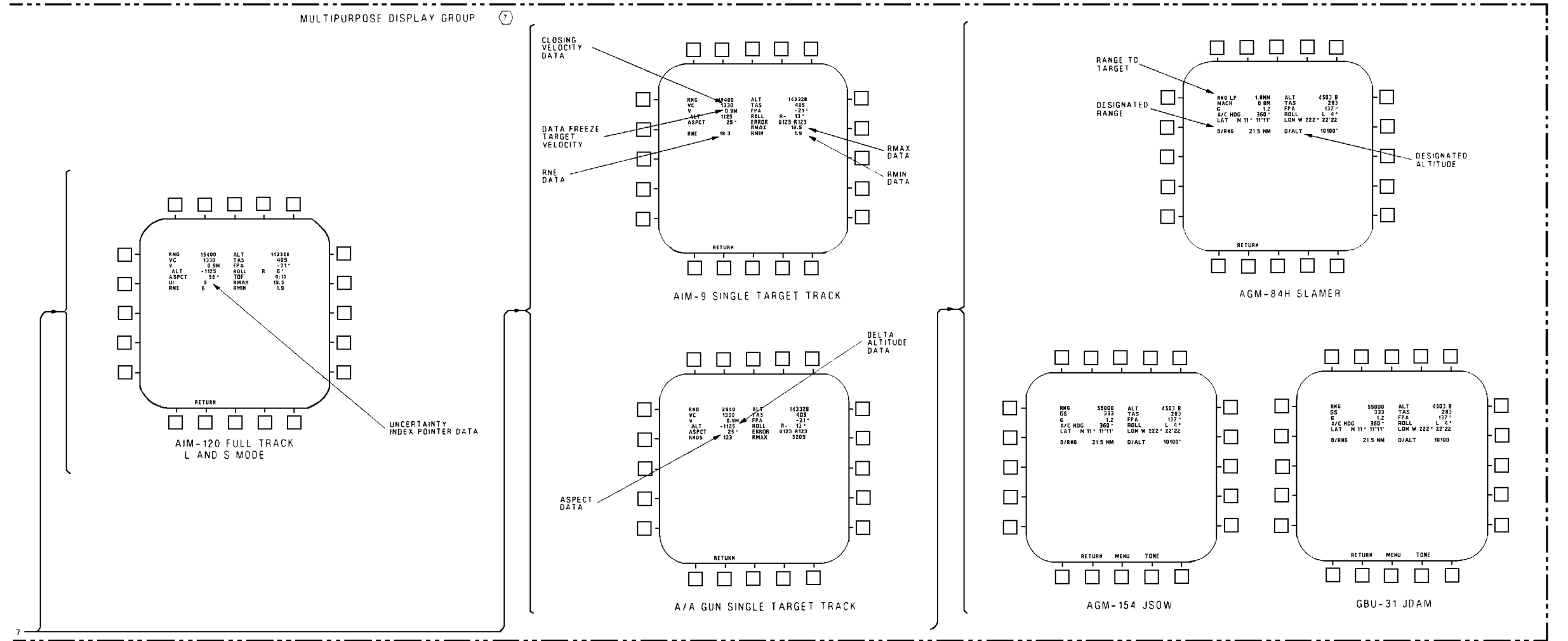


Figure 1.

Figure 1. Data Freeze Display Schematic (Sheet 9)

LEGEND

1. NONSTANDARD ABBREVIATIONS AND SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
3. MENU, BIT CONTROL AND CHECKLIST DISPLAY FUNCTIONAL SCHEMATIC, A1-F18AC-745-500, WP010 00.
4. REF CODES NOT SHOWN. IF INDICATOR PUSHBUTTON SWITCH ACTION DOES NOT RESULT IN NORMAL INDICATION, TROUBLESHOOT USING:
A1-F18AC-745-200, WP 004 00.
5. DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, REFER TO A1-F18A()-FRM-000, WP005 00. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST:
A1-F18AC-745-200, WP 004 00.
6. SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.
7. MULTIPURPOSE DISPLAY GROUP INTERCONNECT SCHEMATIC, A1-F18AC-745-500.
8. AFTER F/A-18 AFC 231.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

LOCATOR

ELECTRICAL BORESIGHT COMPENSATION SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F18 AFC 20	-	Electrical Boresighting of Radar, Provisions For (ECP MDA-F/A-18-00050C1)	15 Jul 84	ECP Coverage Only
F/A-18 AFC 253	-	U. S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U. S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18 0583R1)	1 Nov 01	-

1. INTRODUCTION.

2. The component locator in this work package supports the electrical boresight compensation assembly schematic in this manual.

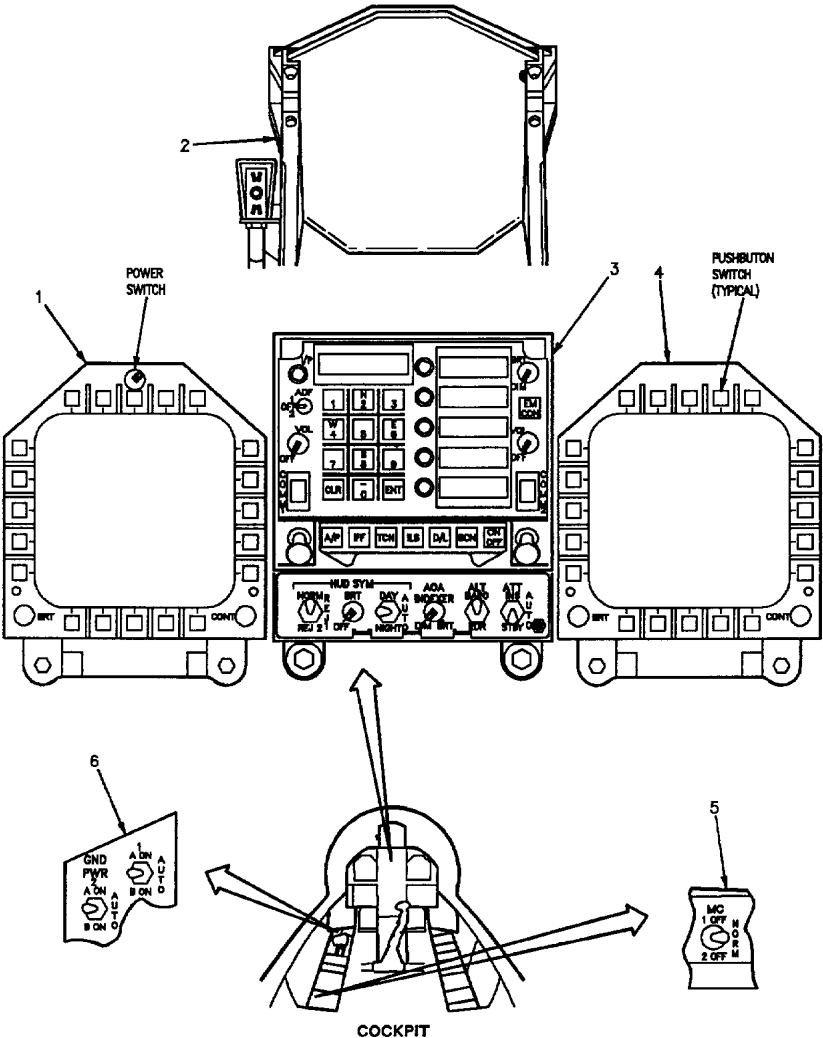


Figure 1. Electrical Boresight Compensation System Locator (Sheet 1)

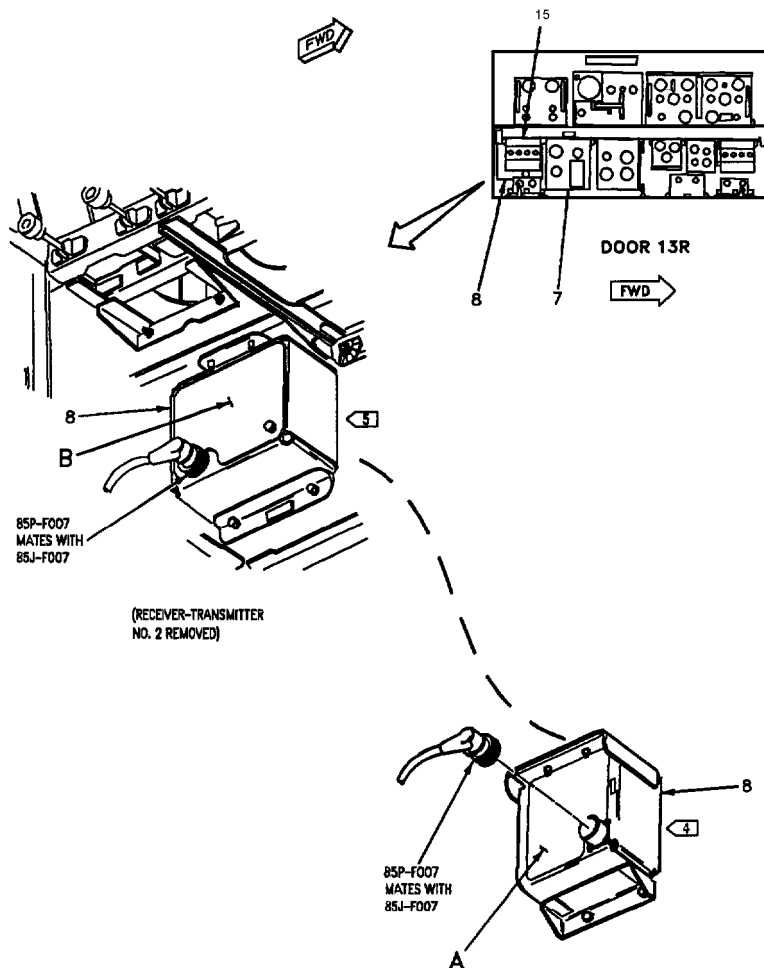


Figure 1. Electrical Boresight Compensation System Locator (Sheet 2)

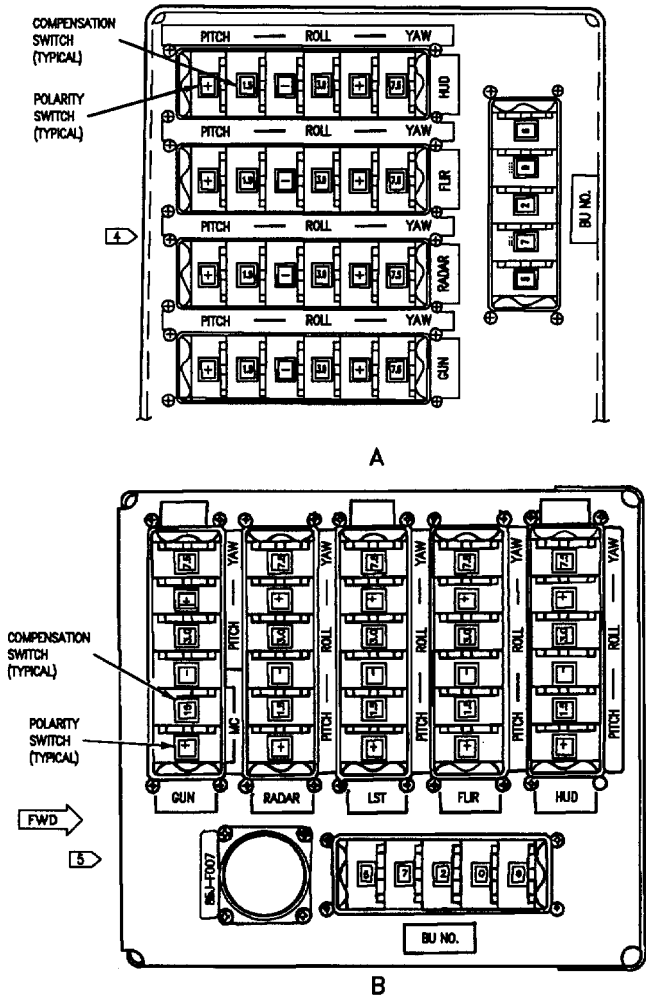
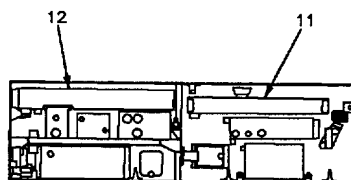
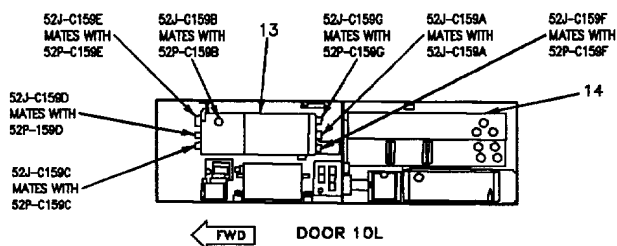
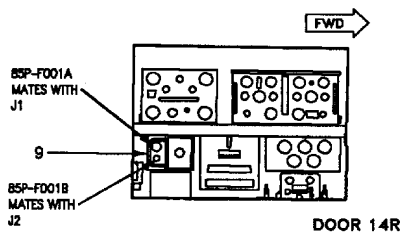
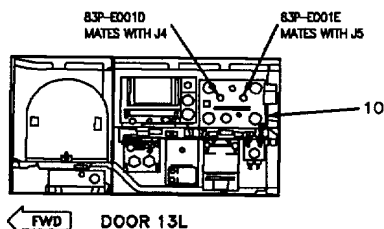


Figure 1. Electrical Boresight Compensation System Locator (Sheet 3)



DOOR 10R



DOOR 14R

Figure 1. Electrical Boresight Compensation System Locator (Sheet 4)

Nomenclature	Index No.	Ref Des
CONTROL CONVERTER C-10382/A	7	82A-F001
DIGITAL DATA COMPUTER NO. 1	10	83A-E001
ELECTRICAL BORESIGHT COMPENSATION ASSEMBLY	8	85A-F007
ELECTRONIC EQUIPMENT CONTROL C-10380/ASQ	3	79A-J006
GND PWR CONTROL PANEL ASSEMBLY	6	1A-H004
HEAD UP DISPLAY UNIT AN/AVQ-28	2	79A-J001
LEFT DIGITAL DISPLAY INDICATOR IP-1317()	1	80A-H001
MC HYD ISOL CONTROL PANEL ASSEMBLY	5	52A-H081
NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY	11	52A-D024
NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY	12	52A-D026
NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	13	52A-C057
NO. 8 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	14	52A-C159
RIGHT DIGITAL DISPLAY INDICATOR IP-1317()	4	80A-J002
SIGNAL DATA RECORDER RO-508/ASM-612	9	85A-F001
UHF/VHF RECEIVER-TRANSMITTER NO. 2	15	76A-F002 76A-F042

6

LEGEND	
1.	AIRCRAFT CONNECTOR LOCATIONS ARE SHOWN IN A1-F18A()-WDM-000.
2.	AIRCRAFT DOOR LOCATIONS ARE SHOWN IN A1-F18AC-LMM-000.
3.	CIRCUIT BREAKER ZONES ARE SHOWN A1-F18AC-LMM-000.
<div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">4</div>	161353 THRU 161528 BEFORE F18 AFC 20.
<div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">5</div>	161702 AND UP ALSO 161353 THRU 161528 AFTER F18 AFC 20.
<div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">6</div>	161353 AND UP AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.

Figure 1. Electrical Boresight Compensation System Locator (Sheet 5)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

ELECTRICAL BORESIGHT COMPENSATION SYSTEM

Title	WP Number
Electrical Boresight Compensation System 161702 AND UP; ALSO 161353 161528 AFTER F18 AFC 20	075 01
Electrical Boresight Compensation System 161353 THRU 161528 BEFORE F18 AFC 20	075 02

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****ELECTRICAL BORESIGHT COMPENSATION SYSTEM****EFFECTIVITY: 161702 AND UP; ALSO 161353 THRU 161528 AFTER F/A-18 AFC 20**

Reference Material

None

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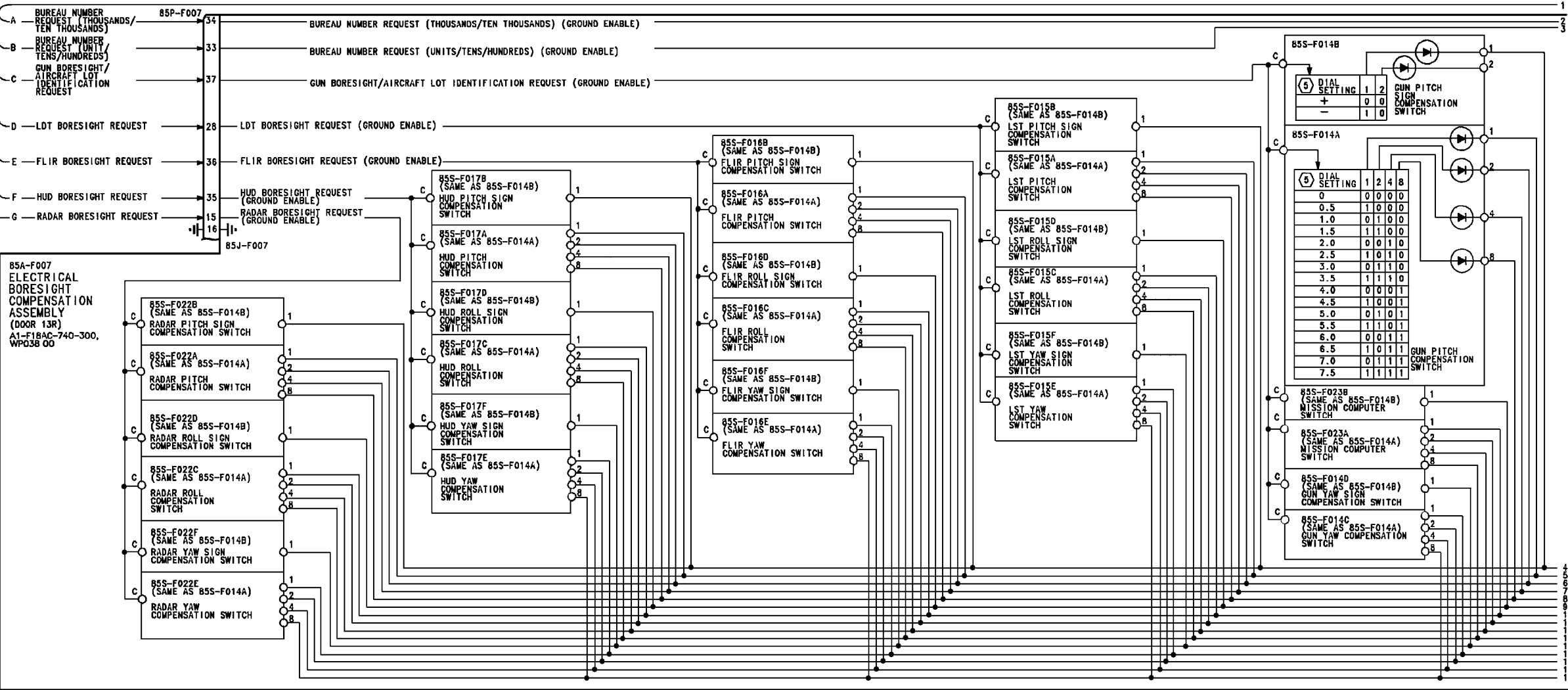
Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 20	-	Electrical Boresighting of Radar, Provisions for (ECP MDA-F/A-18-00050C1)	15 Jul 84	-

1. INTRODUCTION.

2. The schematic in this work package shows the electrical boresight compensation assembly and aircraft related functions.

3. Component location can be seen in WP074 00.



75010101

Figure 1.

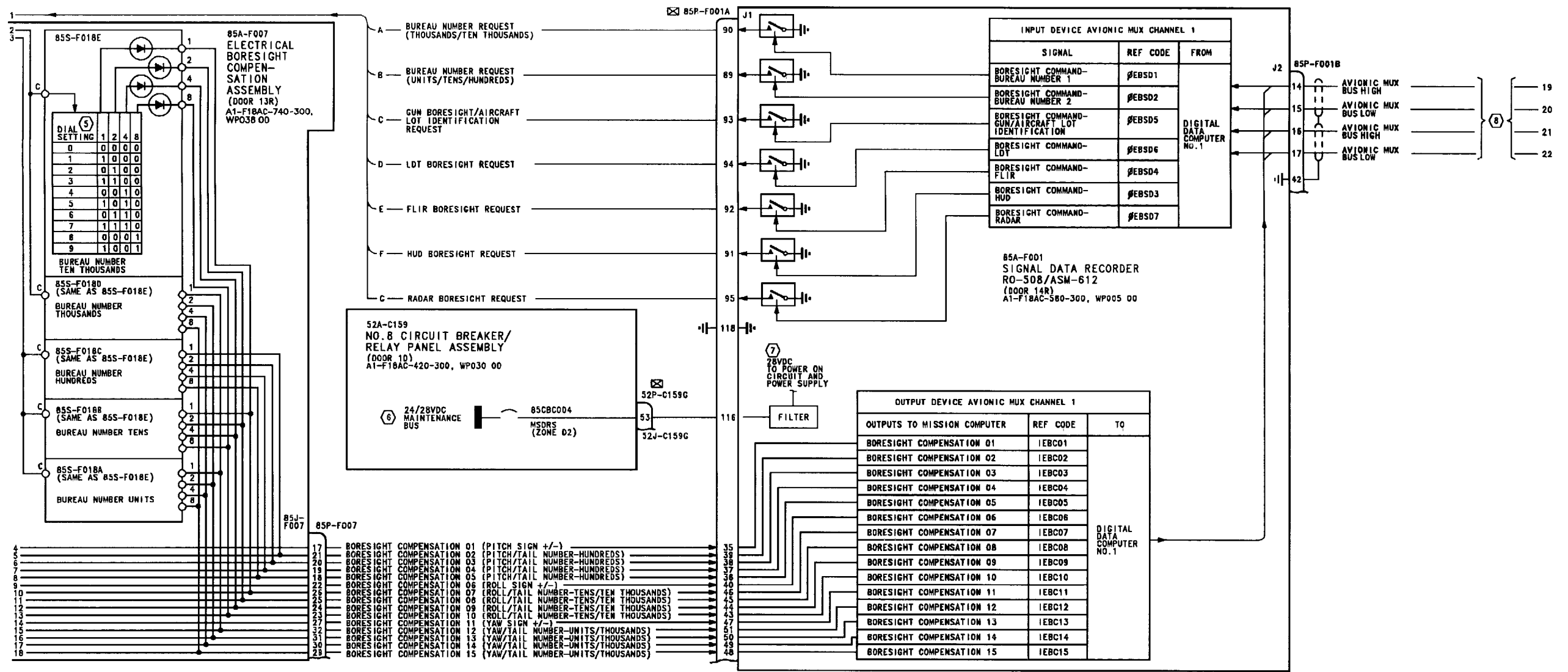


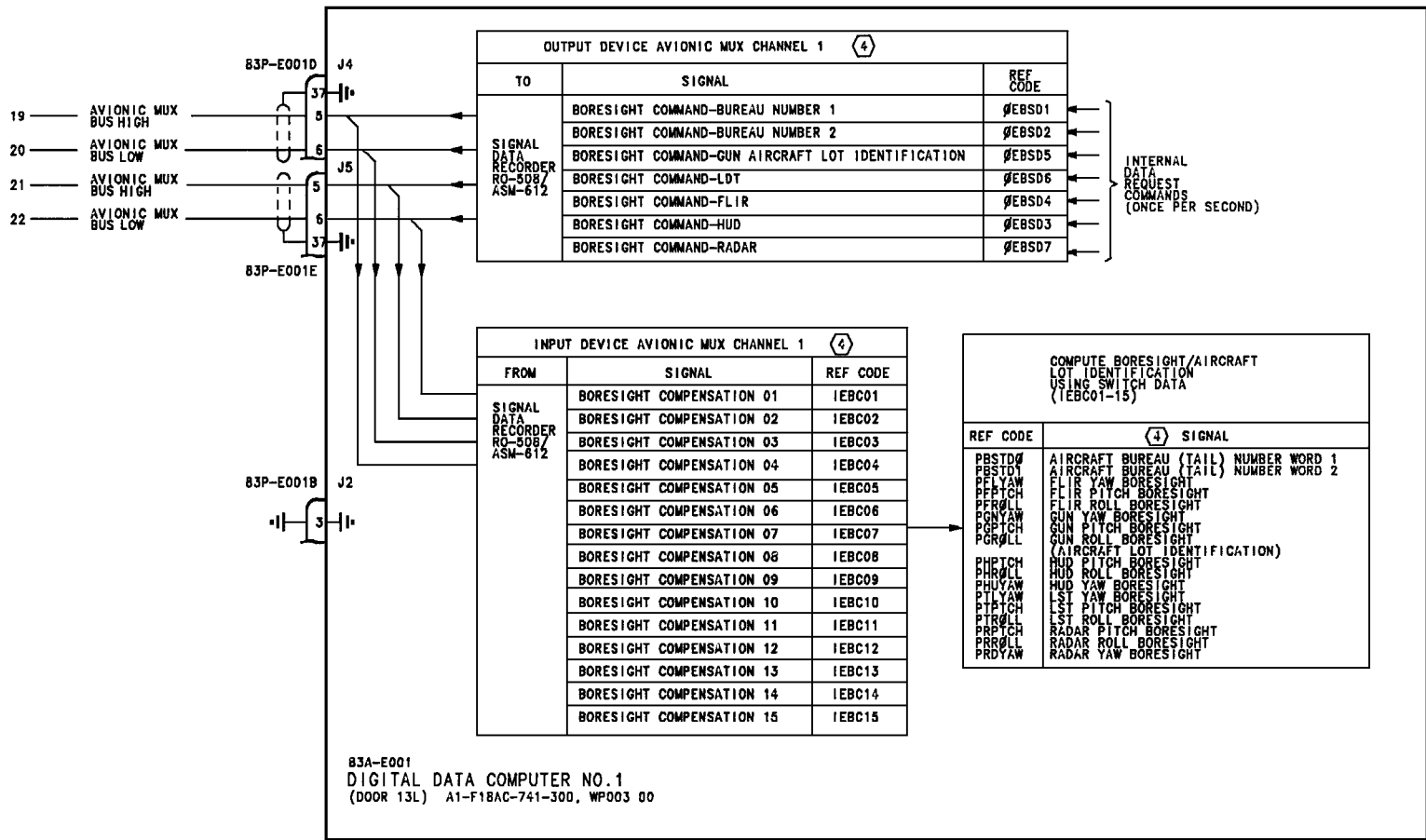
Figure 1.

Figure 1. Electrical Boresight Compensation System Schematic (Sheet 2)

Figure 1.

Figure 1. Electrical Boresight Compensation System Schematic (Sheet 3)

Figure 1.



LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
2. CONTINUITY TEST:
 - A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
 - C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE.
 - D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.
 - E. WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY \boxtimes). MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
3. ABBREVIATIONS: SEE WP002 01.
 4. FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
 5. SWITCH OUTPUT LOGIC IS BINARY CODED.
 6. DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
 7. MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM POWER SCHEMATIC, A1-F18AC-580-500, WP005 00.
 8. SEE APPROPRIATE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.

ORGANIZATIONAL MAINTENANCE**SYSTEM SCHEMATICS****ELECTRICAL BORESIGHT COMPENSATION SYSTEM****EFFECTIVITY: 161353 THRU 161528 BEFORE F/A-18 AFC 20**

Reference Material

None

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Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. The schematic in this work package shows the electrical boresight compensation assembly and aircraft related functions.

3. Component locations can be seen in WP074 00.

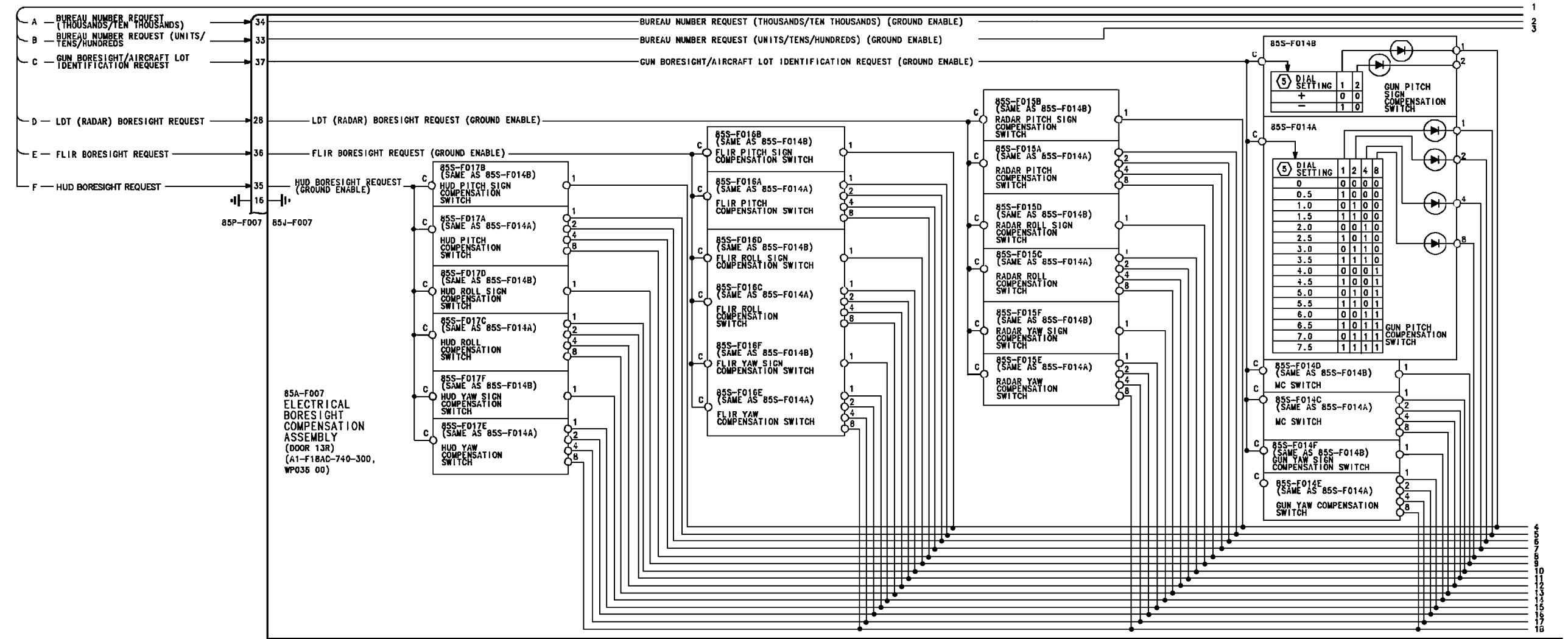


Figure 1.

Figure 1. Electrical Boresight Compensation System Schematic (Sheet 1)

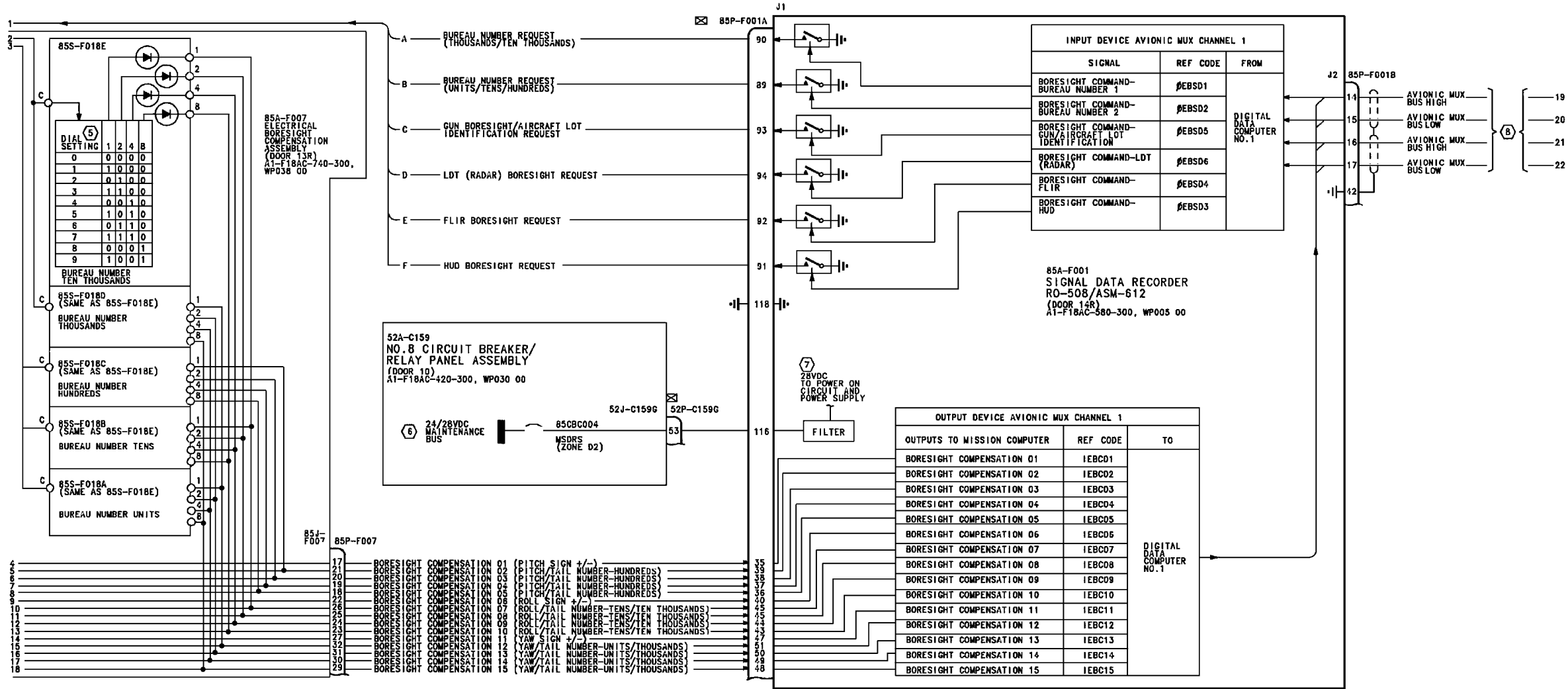


Figure 1.

Figure 1. Electrical Boresight Compensation System Schematic (Sheet 2)

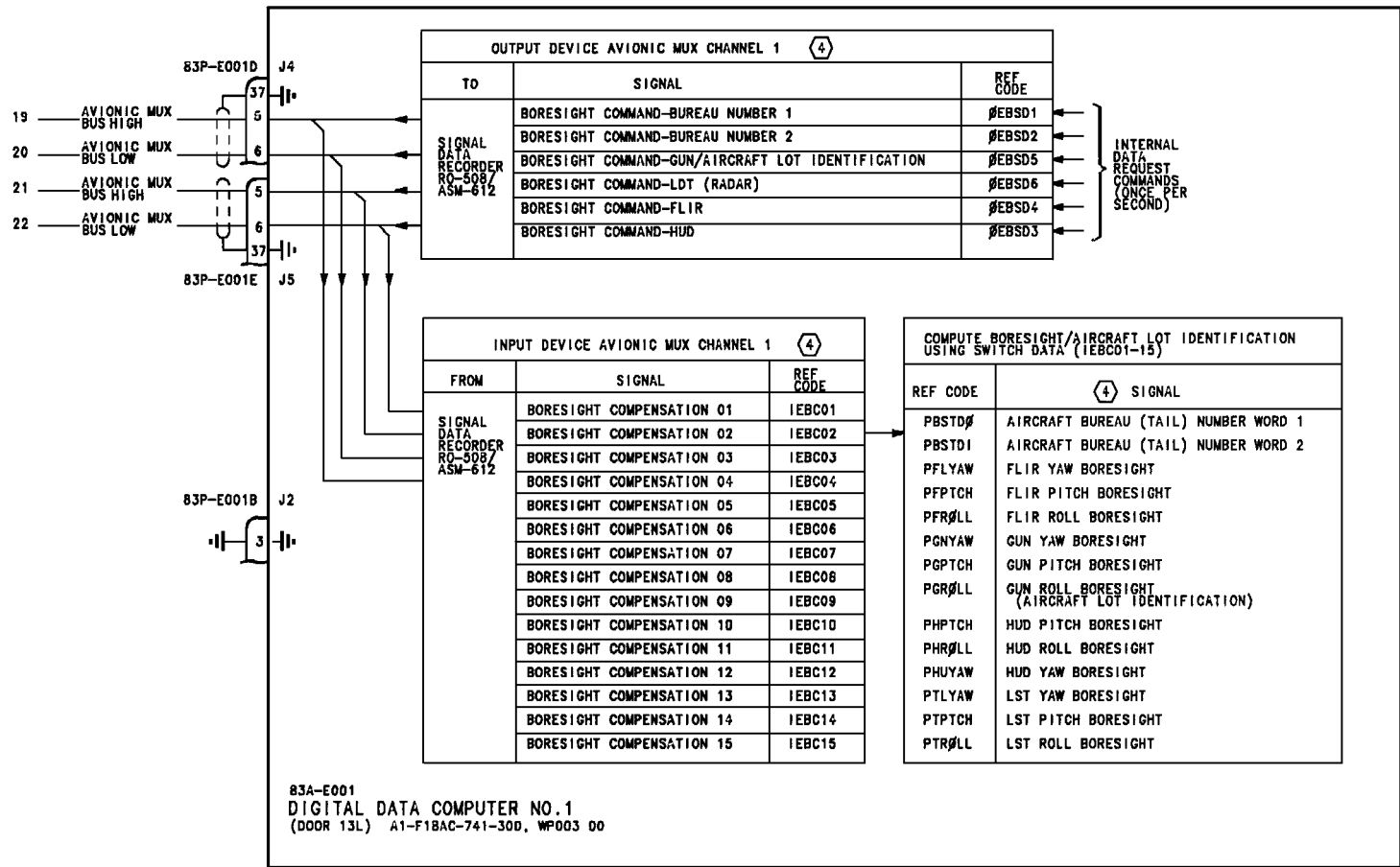







Figure 1.

Figure 1. Electrical Boresight Compensation System Schematic (Sheet 3)

Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS: SEE WP002 01.
 2. CONTINUITY TEST:
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 - B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY \oplus) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
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-  DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-600, WP004 00.
-  MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM POWER SCHEMATIC, A1-F18AC-580-600, WP006 00.
-  SEE APPROPRIATE AVIONIC MUX CHANNEL SCHEMATIC, A1-F18AC-741-500, WP001 00.

